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AERIAL VIEW OF TH

NIVERSITY CAMPUS

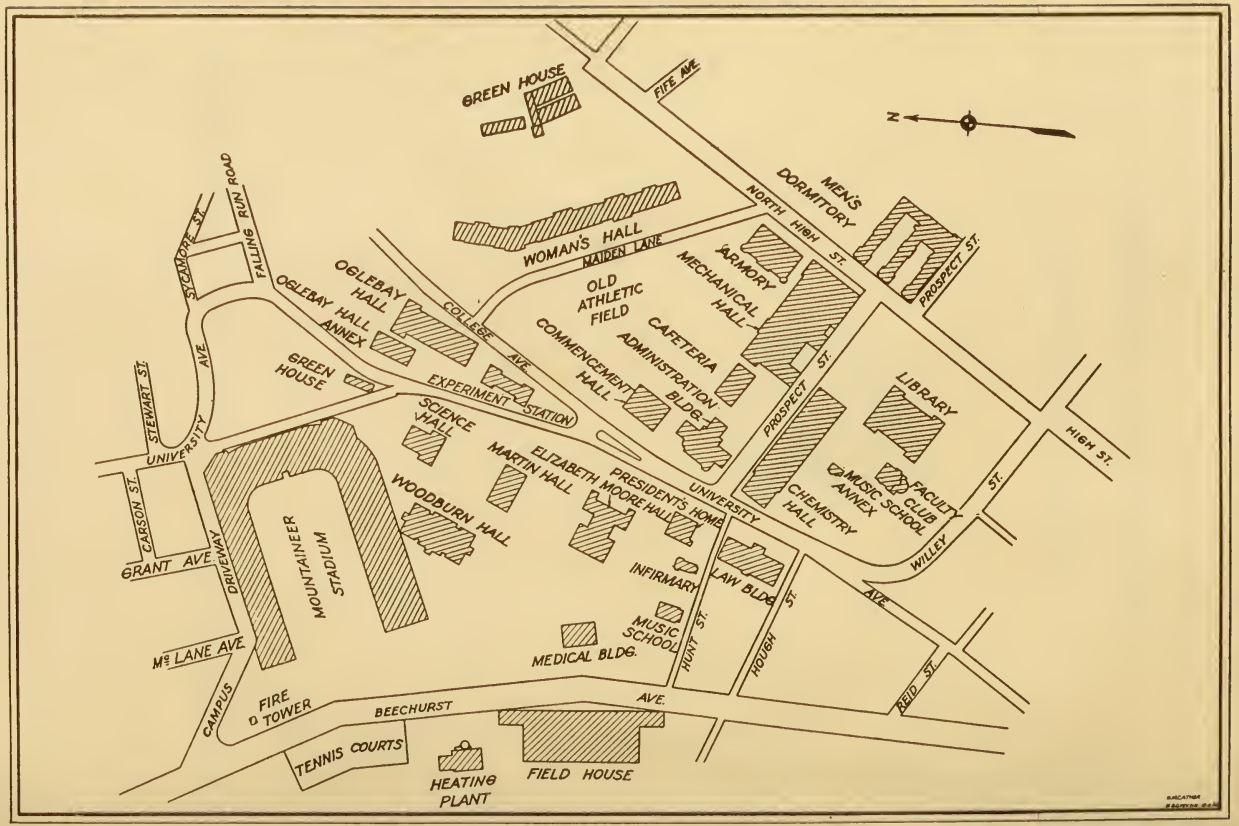
WEST VIRGINIA UNIVERSITY

CATALOGUE NUMBER

1936-1937 Session

ANNOUNCEMENTS OF THE 1937-1938 SESSION

March, 1937
MORGANTOWN, WEST VIRGINIA
Published by the University



MAP OF CAMPUS

CONTENTS

	Page
Calendars	4–5
Governing Boards	6

PART I—STAFF OF INSTRUCTION, RESEARCH, AND EXTENSION

Administrative Officers	7
Staff of Instruction	9
University Demonstration High School Staff	17
Library Staff	18
Agricultural Experiment Station Staff	18
Agricultural Extension Division Staff	20
Mining and Industrial Extension Staff	21
Military Staff	21
Athletic Staff	22
Athletic Board	22
Standing Committees	22

PART II—GENERAL INFORMATION

History of the University	27
Location	28
Physical Plant	28
Funds	30
Government and Organization	30
Living Accommodations	47
Admission to the University	48
Registration	54
University Fees and Expenses	58
Degrees	61
Examinations and Reports	65
Discipline	66
Student Welfare	69
Scholarships and Loan Funds	74
Prizes, Trophies, and Medals	78
Honor Societies	81
Other University Organizations	83
Publications	85
Associated Institutions	85

PART III—CURRICULAR REQUIREMENTS AND COURSES OF INSTRUCTION IN THE COLLEGES, SCHOOLS, AND DIVISIONS

The College of Agriculture	88
The College of Arts and Sciences	107
State Teacher-Training and Certification Regulations	159
The College of Education	176
The College of Engineering and Mechanic Arts and the School of Mines	181
The Graduate School	207
The College of Law	211
The School of Medicine	217
The Division of Military Science and Tactics	223
The School of Music	224
The College of Pharmacy	231
The Division of Physical Education	236

PART IV—DEGREES CONFERRED BY THE UNIVERSITY

Degrees Conferred, 1935-36:	
Graduate Degrees	247
Baccalaureate Degrees	250
Degrees Conferred, 1870-1936:	
Baccalaureate Degrees	263
Graduate Degrees	264
Honorary Degrees	265
Classified Enrollment	266
Geographical Distribution of Enrollment	269
Index	271

YEAR 1937

JANUARY

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YEAR 1938

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DECEMBER

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25	**26**	**27**	**28**	**29**	**30**	**31**

The days on which the University is in session are printed in light-face type; Sundays, holidays and vacations in bold-face type.

UNIVERSITY CALENDAR

1937

May 31, Monday, to June 7, Monday, inclusive
Final examinations for second semester
June 6, Sunday ..... Baccalaureate exercises
June 7, Monday ..... Alumni Day
June 8, Tuesday ..... Commencement Day
June 9, Wednesday ..... Opening of Summer Session—registration of students
June 10, Thursday ..... First recitations of Summer Session
July 5, Monday (for July 4th, Sunday) ..... Independence Day, a holiday
July 21, Wednesday ..... Close of first term, Summer Session
July 22, Thursday
Opening of second term, Summer Session—registration of students
July 23, Friday ..... First recitations of second term, Summer Session
August 26, Thursday ..... Close of Summer Session
September 12, Sunday ..... Opening of first semester
September 12, 13, 14, 15, Sunday, Monday, Tuesday, and Wednesday
Freshman Week exercises
September 14 and 15, Tuesday and Wednesday ..... Registration of students
September 16, Thursday ..... First recitations of first semester
November 12, Friday ..... Day for mid-semester reports
November 25, Thursday, to November 28, Sunday, inclusive
Thanksgiving recess
December 18, Saturday, to January 3, Monday, inclusive ..... Christmas recess

1938

January 22, Saturday, to January 29, Saturday, inclusive
Final examinations for first semester
February 1, Tuesday ..... Opening of second semester
February 1 and 2, Tuesday and Wednesday ..... Registration of students
February 3, Thursday ..... First recitations of second semester
April 2, Saturday ..... Day for mid-semester reports
April 14, Thursday, to April 19, Tuesday, inclusive ..... Easter recess
May 28, Saturday, to June 6, Monday, inclusive
Final examinations for second semester
May 30 Monday ..... Memorial Day, a holiday
June 5, Sunday ..... Baccalaureate exercises
June 6, Monday ..... Alumni Day
June 7, Tuesday ..... Commencement Day

WEST VIRGINIA UNIVERSITY

MORGANTOWN

Established February 7, 1867

THE WEST VIRGINIA BOARD OF CONTROL

	TERM EXPIRES
JOHN BAKER WHITE, PRESIDENT, *Charleston*	June 30, 1937
MERRILL D. CARRICO, TREASURER, *Terra Alta*	June 30, 1939
C. PAUL NELSON, SECRETARY, *Huntington*	June 30, 1941

The West Virginia Board of Control has the direction of the financial and business affairs of the state educational institutions.

THE BOARD OF GOVERNORS

	TERM EXPIRES
EDWARD GRANDISON SMITH, PRESIDENT, *Clarksburg*	June 30, 1938
HERBERT STEPHENSON BOREMAN, VICE-PRESIDENT, *Parkersburg*	June 30, 1937
WRIGHT HUGUS, *Wheeling*	June 30, 1938
ARTHUR BURKE KOONTZ, *Charleston*	June 1, 1940
HARRIET LOUISE FRENCH, *Bluefield*	June 30, 1937
CLEVELAND McSHERRY SEIBERT,[1] *Martinsburg*	June 30, 1937
JOHN JACOB CORNWELL, *Romney*	June 30, 1937
JOHN ROBERT POLAND, *Martinsburg*	April 30, 1940

CHARLES THOMPSON NEFF, JR., SECRETARY, *Morgantown*

The Board of Governors has charge of the educational and administrative affairs of the University.

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[1]Deceased, September 26, 1936.

Part I

THE STAFF OF INSTRUCTION, RESEARCH, AND EXTENSION*

THE ADMINISTRATIVE OFFICERS

GENERAL

CHAUNCEY SAMUEL BOUCHER, PH. D., LL. D., *President of the University* (1935).

ROBERT ALLEN ARMSTRONG, A. M., L. H. D.,[1] *University Chaplain* (1910).

LONNA DENNIS ARNETT, PH. D., *Librarian Emeritus* (1935), 1910.

RICHARD ASPINALL, D. B., PH. D., *Assistant to the President, Director of Student Affairs, and Director of University Extension* (1936), 1930.

CRISTOPHER GEORGE BROUZAS, PH. D., *Librarian* (1935), 1926.

LLOYD LOWNDES FRIEND, M. A., *Registrar of the University* (1929), 1925.

CHARLES THOMPSON NEFF, JR., A. B., *Financial Secretary* (1934), 1927.

RUTH DOUGLAS NOER, M. S., *Dean of Women* (1929), 1925.

THE COLLEGES, SCHOOLS, AND DIVISIONS

STEPHEN PATRICK BURKE, CH. E., PH. D.,[2] *Director, Department of Industrial Sciences* (1935), 1930.

FRIEND EBENEZER CLARK, PH. D., *Chairman of the Graduate Council* (1935), 1914.

FRANK CUTHBERT, *Director of the School of Music* (1934).

ANDREW JACKSON DADISMAN, PH. D., *Director of the Summer Session* (1929), 1914.

ROLAND PARKER DAVIS, PH. D., *Dean of the College of Engineering* (1932), 1911.

LELAND S. DEVORE, LIEUTENANT COLONEL, INFANTRY, UNITED STATES ARMY. *Commandant of Cadets* (1936), 1923.

CARL MAYNARD FRASURE, PH. D., *Assistant Dean of the College of Arts and Sciences* (1936), 1927.

FRED DENTON FROMME, PH. D., *Dean of the College of Agriculture, Director of the Agricultural Experiment Station, and Director of Agricultural Extension* (1933), 1928.

THOMAS PORTER HARDMAN, J. D., *Dean of the College of Law* (1931), 1913.

JOSEPH LESTER HAYMAN, PH. C., M. S., *Director, College of Pharmacy* (1936), 1919.

[1]Deceased September 15, 1936.
[2]Resigned June 30, 1936.

*NOTE: Date of appointment to present position is given in parentheses after title; date following, if any, indicates year of first appointment to the University staff.

EARL HUDELSON, PH. D., *Dean of the College of Education* (1930), 1920.

CHARLES ELMER LAWALL, E. M., M. S., *Director of the School of Mines and Director of Extension in the Industrial Sciences* (1930), 1921.

CARL PETER SCHOTT, PH. D., *Director of the Division of Physical Education* (1928).

WILSON PORTER SHORTRIDGE, PH. D., *Dean of the College of Arts and Sciences* (1929), 1922.

JOHN FAIRFIELD SLY, PH. D.,[1] *Director of the Bureau for Government Research* (1930).

EDWARD JERALD VAN LIERE, M. D., PH. D., *Acting Dean of the School of Medicine* (1935), 1921.

THE COUNCIL OF ADMINISTRATION; THE SENATE

For a description of the Council of Administration and of the University Senate see the section on Government and Organization, page 30.

THE GRADUATE COUNCIL

FRIEND EBENEZER CLARK, PH. D., *(Chairman), Professor of Chemistry.*

CHARLES HENRY AMBLER, PH. D., *Professor of History*

ROBERT DODGE BALDWIN, PH. D., *Professor of Education.*

ROBERT CAMERON COLWELL, PH. D., *Professor of Physics.*

ROBERT BARCLAY DUSTMAN, PH. D., *Professor of Agricultural Chemistry.*

WILLARD WELLINGTON HODGE, M. A., *Professor of Chemical Engineering.*

FORREST WILBUR STEMPLE, PH. D., *Professor of Education.*

HARRY G. WHEAT, PH. D., *Professor of Education.*

OTHER ADMINISTRATIVE OFFICERS

CHANDLER LINN BROOKS, *Assistant Superintendent of Buildings and Grounds (limited service)* (1932), 1917.

STANLEY R. FISHER, A. B., *Manager, University Book Store* (1934).

JOHN BEHNY GRUMBEIN, M. M. E., *Superintendent of Buildings and Grounds* (1932), 1903.

ROY M. HAWLEY, A. B., *Director, Bureau of Information* (1935).

GERALD JENNY, M. S., *University Editor* (1933), 1929.

J. EVERETT LONG, A. M., *Assistant Registrar* (1935), 1929.

WALTER ALEXANDER MESTREZAT, *Director of the University Band* (1901).

BERTHA BROWNING PURINTON, A. M., *Assistant Registrar* (1928), 1919.

HARRY ADAMS STANSBURY, B. S., *Director of Athletics* (1916).

HARRY EVERETTE STONE, A. M., *Secretary of Student Loans and Placement* (1936), 1922.

THE STUDENT HEALTH SERVICE

FREDERICK RENDELL WHITTLESEY, M. D., *University Physician and Director of the Student Health Service* (1931), 1930.

ETHEL FEATHER, *Nurse* (1926).

FREDERICK LINCK GEILER, B. S. PHAR., M. S., *Pharmacist* (1928).

MABEL M. LOVE, R. N., *Nurse* (1930).

SAMUEL JOHN MORRIS, M. D., *Assistant Physician and X-Ray Director* (1935), 1912.

ROY ROOSEVELT SUMMERS, M. D., *Assistant Director and Physician* (1932).

[1]Resigned June 30, 1936.

THE RESIDENCES AND COMMONS

MAYME ELIZABETH WADDELL, B. S., *Business Director* (1935), 1930.
MRS. ELIZABETH B. ABBOTT, *Night Chaperone, Woman's Hall, Center* (1935), 1919.
EDNA ARNOLD, M. S., *Social Director, Woman's Hall, North* (1935).
MRS. OLA S. COFFROTH, *Executive Housekeeper* (1936), 1935.
FRANK CUTHBERT, *Assistant Head Resident, Men's Dormitory* (1935), 1934.
ARLEIGH LEE DARBY, LITT. D., *Head Resident, Men's Dormitory* (1935), 1910.
MARION C. HADLOCK, M. A., *Social Director, Woman's Hall, South* (1935).
ISABEL RAY HAYES, *Social Director, Woman's Hall, Center* (1935), 1923.
WILLARD WELLINGTON HODGE, M. A., *Assistant Head Resident, Men's Dormitory* (1935), 1921.
FRANCES LARAWAY, B. S. H. E., *Dietitian of Men's Dining Hall* (1936).
ZOLA SHIREY, B. S., *Dietitian of Woman's Dining Hall* (1935), 1930.

THE STAFF OF INSTRUCTION

PROFESSORS

HOWARD BUSHNELL ALLEN, PH. D., *Professor of Education* (1932), 1920.
CHARLES HENRY AMBLER, PH. D., *Professor of History* (1929), 1917.
WALTER WARDLAW ARMENTROUT, PH. D., *Professor of Farm Economics* (1936), 1924.
ROBERT ALLEN ARMSTRONG, A. M., L. H. D., LL. D.,[1] *Professor of the English Language and Literature* (1903), 1893.
HORACE ATWOOD, M. S. AGR., *Professor Emeritus of Poultry Husbandry* (1931), 1911.
ROBERT DODGE BALDWIN, PH. D., *Professor of Education* (1933), 1931.
GORDON ALGER BERGY, PH. C., M. S., *Professor of Pharmacy* (1917), 1916.
LOUIS BLACK,[2] *Professor of Music (limited service)* (1934), 1909.
GEORGE PAUL BOOMSLITER, M. S. C. E., *Professor of Mechanics* (1920).
CHRISTOPHER GEORGE BROUZAS, PH. D., *Professor of Latin and Greek* (1935), 1926.
STEPHEN PATRICK BURKE, CHEM. E., PH. D.,[3] *Professor of Industrial Sciences* (1930).
JAMES MORTON CALLAHAN, PH. D., *Professor of History and Political Science* (1902).
LEO CARLIN, A. B., LL. B., *Professor of Law* (1921), 1916.
SIMON B. CHANDLER, A. M., M. D., *Professor of Anatomy* (1935).
OLIVER PERRY CHITWOOD, PH. D., LL. D., *Professor of History* (1907).
FRIEND EBENEZER CLARK, PH. D., *Professor of Chemistry* (1914).
RACHEL HARTSHORN COLWELL, M. A., *Professor of Home Economics and Education* (1920), 1910.
ROBERT CAMERON COLWELL, PH. D., *Professor of Physics* (1924), 1918.
JOHN HARRINGTON COX, PH. D., LITT. D., *Professor of English Philology Emeritus* (1930), 1902.
FRANK CUTHBERT, *Professor of Music* (1934).
ANDREW JACKSON DADISMAN, PH. D., *Professor of Economics* (1933), 1914.
ARLEIGH LEE DARBY, A. M., LITT. D., *Professor of Romance Languages* (1920), 1910.

[1]Deceased September 15, 1936.
[2]Deceased May 5, 1936.
[3]Resigned June 30, 1936.

EARL CLAUDIUS HAMILTON DAVIES, PH. D., *Professor of Chemistry* (1931), 1920.

ROLAND PARKER DAVIS, PH. D., *Professor of Structural and Hydraulic Engineering* (1911).

JASPER NEWTON DEAHL, PH. D., *Professor of Education Emeritus* (1930), 1901.

LELAND S. DEVORE, LIEUTENANT COLONEL, INFANTRY, UNITED STATES ARMY, *Professor of Military Science and Tactics* (1936), 1923.

EDMUND CHARLES DICKINSON, A. B., J. D., *Professor of Law* (1921).

GIDEON STANHOPE DODDS, B. A., M. A., PH. D., *Professor of Histology and Embryology* (1925), 1918.

WILLIAM SMITH DOWNS, B. S. C. E., C. E., *Professor of Railway and Highway Engineering (Part-Time)* (1935), 1931.

JOHN WILLIAM DRAPER, PH. D., *Professor of English* (1929).

ROBERT BARCLAY DUSTMAN, PH. D., *Professor of Agricultural Chemistry* (1929), 1924.

JOHN ARNDT EIESLAND, PH. D., *Professor of Mathematics* (1907).

CLEMENT COLEMAN FENTON, M. S., M. D., *Professor of Pathology and Clinical Pathology* (1926), 1922.

JEFFERSON BARNES FORDHAM, A. M., J. D., J. S. D.,[4] *Professor of Law* (1934), 1930.

ALEXANDER HARDIE FORMAN, M. M. E., PH. D., *Professor of Electrical Engineering* (1916), 1913.

RALPH JOHN GARBER, PH. D.,[4] *Professor of Agronomy and Genetics* (1923), 1920.

JAMES HERBERT GILL, M. E., *Professor of Machine Construction and Superintendent of Shops* (1920).

JOHN BEHNY GRUMBEIN, M. M. E., *Professor of Power Engineering* (1916), 1903.

ARTHUR A. HALL, B. S. M. E., *Professor of Electrical Engineering* (1922), 1916.

THOMAS PORTER HARDMAN, M. A., J. D., *Professor of Law* (1919), 1913.

THOMAS LUTHER HARRIS, PH. D., *Professor of Sociology* (1923), 1921.

LESLIE DAVID HAYES, M. E., *Professor of Machine Design and Construction* (1918).

JOSEPH LESTER HAYMAN, PH. C., M. S., *Professor of Pharmacognosy* (1935), 1919.

HARRY ORAM HENDERSON, PH. D., *Professor of Dairy Husbandry* (1928), 1919.

HUBERT HILL, M. S., *Professor of Chemistry* (1928), 1911.

LAWRENCE BENJAMIN HILL, PH. D., *Professor of Education* (1920), 1918.

WILLARD WELLINGTON HODGE, M. A., *Professor of Chemical Engineering and Director, Engineering Experiment Station* (1936), 1921.

EARL HUDELSON, PH. D., *Professor of Education* (1920).

CARL ALFRED JACOBSON, PH. D., *Professor of Chemistry* (1920).

DAVID DALE JOHNSON, A. M., LITT. D., *Professor of English* (1920), 1902.

CLEMENT ROSS JONES, M. M. E., *Dean Emeritus of the College of Engineering and Professor of Power Engineering* (1932), 1895.

WILBUR JONES KAY, A. M., *Professor of Public Speaking* (1919).

HARRY EDWARD KNOWLTON, PH. D.,[5] *Professor of Horticulture* (1930), 1919.

WALTER ALLOS KOEHLER, CH. E., PH. D., *Professor of Chemical and Ceramic Engineering* (1929), 1924.

[4]Resigned June 30, 1936.
[5]Resigned September 15, 1936.

CHARLES ELMER LAWALL, E. M., M. S., *Professor of Mining Engineering* (1925), 1921.
LEON H. LEONIAN, PH. D., *Professor of Mycology* (1936), 1922.
EDWARD ALEXANDER LIVESAY, D. SC., *Professor of Animal Husbandry* (1919).
RAY STANLEY MARSH, M. A., *Professor of Horticulture* (1936).
FRED A. MOLBY, PH. D., *Professor of Physics* (1921), 1920.
SAMUEL MORRIS, PH. D., *Professor of Chemistry* (1921), 1916.
SAMUEL JOHN MORRIS, M. D., *Professor of Physical Education* (1936), 1912.
CLAYTON ROBERTS ORTON, PH. D., *Professor of Plant Pathology* (1929).
LEONARD MARION PEAIRS, PH. D., *Professor of Entomology* (1914), 1912.
WILLIAM HENRY PIERRE, PH. D., *Professor of Agronomy* (1936), 1929.
REBECCA LUELLA POLLOCK, PH. D., *Professor of Education* (1928), 1916.
ALLEN WILSON PORTERFIELD, PH. D., *Professor of German* (1924), 1899.
PERLEY ISAAC REED, PH. D., *Professor of Journalism* (1927), 1920.
ALBERT MOORE REESE, PH. D., *Professor of Zoology* (1907).
CLARENCE NEWTON REYNOLDS, JR., PH. D., *Professor of Mathematics* (1931), 1921.
CARL PETER SCHOTT, PH. D., *Professor of Physical Education* (1928).
WILSON PORTER SHORTRIDGE, PH. D., *Professor of History* (1922).
JOHN FAIRFIELD SLY, PH. D.,[6] *Professor of Political Science* (1930).
ROBERT CLIFTON SPANGLER, PH. D., *Professor of Botany* (1926), 1914.
CLAUDE CARL SPIKER, PH. D., *Professor of French and Spanish* (1926), 1913.
ROBB SPALDING SPRAY, PH. D., *Professor of Bacteriology and Public Hygiene* (1926), 1921.
ELIZABETH MATTINGLY STALNAKER, PH. D., *Professor of Psychology* (1928), 1925.
MADISON STATHERS, PH. D., *Professor of Romance Languages* (1910), 1906.
FORREST WILBUR STEMPLE, PH. D., *Professor of Education* (1931), 1916.
PERRY DANIEL STRAUSBAUGH, PH. D., *Professor of Botany* (1923).
FRANK BUTLER TROTTER, A. M., L. H. D., LL. D., *President Emeritus and Professor of Latin* (1928), 1907.
BIRD MARGARET TURNER, PH. D., *Professor of Mathematics* (1931), 1923.
EDWARD JERALD VAN LIERE, M. D., PH. D., *Professor of Physiology* (1921).
ENOCH HOWARD VICKERS, A. M., *Professor of Economics and Sociology* (1911).
HARRY GROVE WHEAT, PH. D., *Professor of Education* (1935).
CURTIS CHANDLER WILLIAMS, JR., A. B., S. J. D., *Professor of Law* (1932).
JOHN E. WINTER, PH. D., *Professor of Psychology* (1923), 1921.

ASSOCIATE PROFESSORS

CHARLES RUSSEL BURNHAM, PH. D., *Associate Professor of Genetics* (1936), 1934.
LOUIS WATSON CHAPPELL, A. M., *Associate Professor of English* (1928), 1923.
ARMAND RENE COLLETT, PH. D., *Associate Professor of Chemistry* (1931), 1924.
CLYDE LEMUEL COLSON, A. B., LL. B., S. J. D., *Associate Professor of Law* (1935).
HANNIBAL ALBERT DAVIS, PH. D., *Associate Professor of Mathematics* (1935), 1921.
LILY BELL DEATRICK, PH. D., *Associate Professor of Chemistry* (1927), 1920.

[6]Resigned June 30, 1936.

ORFA REX FORD, PH. D., *Associate Professor of Physics* (1931), 1925.

CARL MAYNARD FRASURE, PH. D., *Associate Professor of Political Science* (1935), 1927.

HARRY MARION FRIDLEY, PH. D., *Associate Professor of Geology* (1935), 1928.

GRACE MARGARET GRIFFIN, A. M., *Associate Professor of Physical Education and Director of the Service Program for Women* (1935), 1923.

LLOYD MEREDITH JONES, PH. D., *Associate Professor of Physical Education and Director of Service Program for Men* (1935), 1928.

CHARLES LESTER LAZZELL, PH. D., *Associate Professor of Chemistry* (1935), 1922.

JAMES H. C. MARTENS, PH. D., *Associate Professor of Geology* (1935), 1929.

CHARLES MITRANI, PH. D., *Associate Professor of Romance Languages* (1931), 1921.

ROY A. OLNEY, PH. D., *Associate Professor of Rural Organization* (1930), 1923.

DICKSON WARD PARSONS, PH. D., *Associate Professor of Rural Organization* (1930), 1923.

PAUL HOLLAND PRICE, PH. D., *Associate Professor of Geology* (1936), 1930.

JOHN HARRISON RIETZ, D. V. M., *Associate Professor of Veterinary Medicine* (1927).

HARRY LAWRENCE SAMUEL, M. S. IN PUBLIC HEALTH, *Associate Professor of Physical Education and Director of Intramural Athletics* (1936), 1928.

GEORGE ANDERSON SHIPMAN, PH. D.,[1] *Associate Professor of Political Science* (1935), 1930.

FRED MANNING SMITH, PH. D., *Associate Professor of English* (1931), 1927.

LELAND HART TAYLOR, SC. D., *Associate Professor of Zoology* (1927), 1922.

LLOYD MASSENA THURSTON, PH. D.,[1] *Associate Professor of Dairy Husbandry* (1931), 1929.

WALTER WADEPUHL, PH. D., *Associate Professor of German* (1935), 1926.

KYLE CHESTER WESTOVER, PH. D., *Associate Professor of Horticulture* (1936), 1921.

FREDERICK RENDELL WHITTLESEY, B. A., M. D., *Associate Professor of Medicine* (1935), 1930.

ASSISTANT PROFESSORS

ALEXANDER ADAIR, MAJOR, INFANTRY, UNITED STATES ARMY, *Assistant Professor of Military Science and Tactics* (1936).

LEE LEONARD AMIDON, M. S. M. E., *Assistant Professor of Power Engineering* (1935), 1923.

JEROME E. ANDES, B. S., PH. D., M. D., *Assistant Professor of Pathology* (1936).

ROBERT RUSSELL ASHBURN, A. M., *Assistant Professor of Spanish* (1936), 1925.

GEORGE AUGUSTUS BOWLING, M. S., *Assistant Professor of Dairy Husbandry* (1931).

JAMES PAUL BRAWNER, PH. D., *Assistant Professor of English* (1936), 1935.

HAZEL CRABILL CAMERON, M. A., *Assistant Professor of Physiology and Nutrition* (1933), 1926.

JOSEPH LINCOLN CARTLEDGE, PH. D., *Assistant Professor of Genetics* (1936).

CARL HENRY CATHER, M. S., *Assistant Professor of Mechanics* (1924), 1916.

HAROLD MALCOLM CATHER, M. S. M. E., *Assistant Professor of Machine Design and Construction* (1935), 1919.

[1]Resigned June 30, 1936.

GEORGE HENRY COLEBANK, M. A., *Assistant Professor of Education* (1928).

EARL LEMLEY CORE, PH. D., *Assistant Professor of Botany* (1934), 1928.

FERRIS DEWEY CORNELL, JR., M. S.,[1] *Assistant Professor of Farm Economics* (1929), 1921.

JOHN REGINALD CRESSWELL, PH. D., *Assistant Professor of Philosophy* (1929).

STEPHEN FULLER CROCKER, A. M., *Assistant Professor of English* (1931).

KENNETH CULP DAVIS, A. B., LL. B., *Assistant Professor of Law* (1935).

FORREST RAMON DAVISON, M. S., PH. D., *Assistant Professor of Biochemistry and Pharmacology* (1935).

EVALYN SPURGEON DIXON, PH. D., *Assistant Professor of History* (1935), 1925.

ROBERT TUCKER DONLEY, A. B., LL. B., *Assistant Professor of Law* (1935), 1929.

GEORGE A. EMERSON, M. S., PH. D., *Assistant Professor of Pharmacology* (1935).

THOMAS EDSON ENNIS, PH. D., *Assistant Professor of History* (1935), 1930.

MARJA STEADMAN FEAR, A. M., *Assistant Professor of Public Speaking* (1935), 1920.

CLIFFORD E. GARWICK, M. A., *Assistant Professor of Political Science* (1936).

JOHN ARTHUR GIBSON, JR., PH. D., *Assistant Professor of Chemistry* (1934), 1926.

LLOYD RAYMOND GRIBBLE, PH. D., *Assistant Professor of Zoology* (1935), 1929.

GEORGE WALTER GROW, M. S., *Assistant Professor of Drawing and Machine Design* (1917), 1912.

LYDIA IRENE HINKEL, MUS. B., *Assistant Professor of Music* (1927), 1921.

MAURICE COFFYN HOLMES, SC. D., *Assistant Professor of Physics* (1930).

BEATRICE HURST, M. A., *Assistant Professor of Physical Education* (1935), 1928.

CLYDE BERNARD JENNI, M. S. CH. E., *Assistant Professor of Chemical Engineering* (1935), 1928.

EDWIN CHANNING JONES, M. S. E. E., *Assistant Professor of Electrical Engineering* (1935), 1926.

FORREST ELWOOD KELLER, M. A., *Assistant Professor of Economics* (1936).

ARTHUR A. G. KIRCHHOFF, C. E., *Assistant Professor of Military Science and Tactics* (1934).

JOHN JOSEPH LAWLESS, B. S., M. A., PH. D., *Assistant Professor of Anatomy* (1935).

JOHN HARWOOD LONGWELL, A. M., *Assistant Professor of Animal Husbandry* (1927), 1921.

JAMES B. LOWTHER, M. A., *Assistant Professor of Public Speaking* (1935), 1931.

JOHN BECKER LUCKE, PH. D., *Assistant Professor of Geology* (1936).

ELDOR A. MARTEN, PH. D., *Assistant Professor of Bacteriology* (1936).

GEORGE RALPH MAXWELL, B. S., M. D., *Assistant Professor of Physical Diagnosis* (1936), 1924.

ROY EZEKIEL NELSON, M. S. C. E., M. S. HIGHWAY ENG'G., *Assistant Professor of Railway and Highway Engineering* (1925), 1921.

NELL NESBITT, A. M., *Assistant Professor of Home Economics* (1923).

RUTH DOUGLAS NOER, M. S., *Assistant Professor of Home Economics* (1925).

DAVID W. NORTHUP, A. M., PH. D., *Assistant Professor of Physiology* (1935).

[1]On leave 1936-37.

BETH MAE PALMER, M. S., *Assistant Professor of Home Economics* (1927).
W. CLEMENT PERCIVAL, PH. D., *Assistant Professor of Forestry* (1934).
GEORGE GORDON POHLMAN, PH. D., *Assistant Professor of Agronomy* (1930).
CECIL BENJAMIN PRIDE, A. B., M. D., *Assistant Professor of Surgery* (1936), 1926.
MICHAEL ALPHONSE RAFFERTY, PH. C.,[1] *Assistant Professor of Biochemistry and Pharmacology* (1932), 1929.
GEORGE RAYMOND RINEHART, M. A., *Assistant Professor of Journalism* (1936), 1931.
IRA ERRETT RODGERS, A. B., *Assistant Professor of Physical Education* (1931), 1920.
LYDIA ROESCH, PH. D., *Assistant Professor of German* (1935), 1925.
JACOB SAPOSNEKOW, A. M., *Assistant Professor of Sociology* (1924).
VOLNEY WILLIAM SHEPARD, A. B., B. M., *Assistant Professor of Music* (1930), 1927.
ARTHUR NEWELL SMITH, A. B., *Assistant Professor of Physical Education* (1931), 1923.
WILLARD L. SMITH, *Assistant Professor of Military Science and Tactics* (1932).
WILLIAM ANDERSON STAAB, E. M., *Assistant Professor of Mining Engineering* (1926).
ROY ROOSEVELT SUMMERS, B. S., M. D., *Assistant Professor of Physical Diagnosis* (1936), 1932.
CHARLES CAMERON TALLMAN, LL. B., *Assistant Professor of Physical Education* (1934), 1929.
CHARLES HENRY VEHSE, PH. D., *Assistant Professor of Mathematics* (1929).
BENNETT SEXTON WHITE, B. S. M. E., *Assistant Professor of Drawing and Machine Design* (1922), 1919.
ERNEST THOMAS WIGHTMAN, M. S. AGR., *Assistant Professor of Poultry Husbandry* (1934), 1924.
CHARLES VINYARD WILSON, M. S., *Assistant Professor of Animal Husbandry* (1924), 1919.
MAYBIN H. WILSON, B. E. IN C. E., CAPTAIN, CORPS OF ENGINEERS, UNITED STATES ARMY, *Assistant Professor of Military Science and Tactics* (1936).
KENNETH WOOD, B. M., *Assistant Professor of Violin and Ensemble* (1931), 1928.

INSTRUCTORS

NELLE PERREL AMMONS, A. M., *Instructor in Botany* (1920).
CARTER RICHARD BISHOP, A. M., *Instructor in English* (1929).
EUGENE PAUL BRASHER, M. S., *Instructor in Horticulture* (1936).
MAURICE GRAHAM BROOKS, M. S., *Instructor in Biology* (1935), 1934.
WILLIAM CARSON BROWN, M. S., *Instructor in Dairy Husbandry* (1936), 1934.
ANTHONY VANDRIL CADDEN, B. S., M. D., *Instructor in Medicine.*
WILLIAM JOHN CARL, *Instructor in Foundry Practice* (1920).
WILLIAM HENRY CHILDS, M. S., *Instructor in Horticulture* (1931).
RUSSELL WALTER CLINE, M. S.,[1] *Instructor in Education* (1933), 1928.
GENEVIEVE BERNICE CLULO, A. M., *Instructor in Plant Pathology* (1934), 1932.
JULIUS COHEN, M. A., *Instructor in Political Science* (1934).
KERMIT A. COOK, M. A., *Instructor in Education* (1935).
LUCY MAY COPLIN, A. M., *Instructor in Education* (1931), 1925.
JUNE COZINE, M. A., *Instructor in Education* (1936).

[1]On leave 1936-37.

EDWARD HERMAN CUBBON, M. A., *Instructor in Education* (1936), 1933.
FRANCES PRISCILLA DELANCY, A. M., *Instructor in Political Science* (1935), 1932.
MONTELLE DIETRICH, M. S., *Instructor in Home Economics* (1929).
HELEN WILLIAMS DOLE, M. A., *Instructor in Education* (1936).
REGINALD HORTON DOWNING, PH. D., *Instructor in Mathematics* (1934), 1930.
VIRGINIA LEE DUNCAN, M. A., *Instructor in Physical Education* (1935).
ARTHUR PINGREE DYE, M. S. AGR., *Instructor in Horticulture* (1930), 1923.
GEORGE ANDREW FEDERER, JR., M. A., *Instructor in Education* (1928).
ALBERT WILEY FRIEND, M. S., *Instructor in Physics* (1934).
FREDERICK LINCK GEILER, B. S. PHARMACY, M. S., *Instructor in Pharmacy* (1928).
MARSHALL GLENN, B. S. AGR., *Instructor in Physical Education* (1934), 1933.
WILLIAM OLIVER GNAGEY, *Instructor in Machine Shop Practice* (1920).
MELVIN CRAWFORD GODWIN, A. B., PH. D., *Instructor in Anatomy and Histology* (1936).
ELIZABETH VIRGINIA HAGY, B. S., *Instructor in Home Economics* (1935), 1932.
HUBERT COLEMAN HOWARD, M. A., *Instructor in English* (1928).
KENNETH DOUGLAS HUTCHINSON, M. A., M. B. A., *Instructor in Business Administration* (1932).
ORVILLE RUSSELL KELLEY, A. B., M. S.,[2] *Instructor in Pathology* (1935), 1933.
ELIZABETH LAWRENCE, A. B., *Part-Time Instructor in Education* (1933).
PERCIVAL LLOYD MACLACHLAN, B. A., PH. D., *Instructor in Biochemistry* (1936).
WARREN FRANCIS MANNING, A. M., *Instructor in French* (1928).
LOUIS JOHN MANUS, M. S., *Instructor in Dairy Husbandry* (1935), 1932.
ARTHUR COOK MCBRIDE, A. B., *Instructor in French* (1934), 1927.
EARL NOEL MCCUBBIN, A. M. AGR.,[3] *Instructor in Horticulture* (1928).
BERNARD R. MCGREGOR, B. S. ED., *Instructor in Music* (1936), 1935.
H. BOONE MICHELSON, M. S. J., *Instructor in Journalism* (1935).
SUSAN MAXWELL MOORE, A. B., *Instructor in Piano and Sight Playing* (1903).
GEORGE NORDMEYER, PH. D., *Instructor in German* (1935).
MARY NADINE PAGE, M. A., *Instructor in English* (1934), 1925.
JAMES CHARLES PETTEE, M. S.,[4] *Instructor in Economics* (1935).
HELEN PURINTON PETTIGREW, A. M., *Instructor in English* (1924), 1919.
ELIZABETH FROST REED, A. M., *Instructor in English* (1919).
JACK ASHCRAFT RIGNEY, M. S., *Instructor in Agronomy* (1936).
HAROLD J. SAUM, LL. B., M. A.,[5] *Technical Assistant, Bureau for Government Research* (1935), 1934.
GREEK SAYRE, A. M., *Instructor in English* (1922), 1918.
RAYMER EGBERT SEAMAN, *Instructor in Woodworking and Foundry Practice* (1935), 1912.
CHARLES BORUM SEIBERT, M. S. E. E., *Instructor in Electrical Engineering* (1934).
RUTH JEAN SIMONSON, M. A.,[6] *Part-Time Instructor in Public Speaking* (1934), 1924.
CLARK KENDALL SLEETH, B. S., *Instructor in Physiology* (1936), 1935.

[2]Resigned June 1, 1936.
[3]Resigned June 30, 1936.
[4]Resigned May 31, 1936.
[5]Resigned February 1, 1936.
[6]Resigned January 25, 1936.

GRACE MARTIN-SNEE, B. M., *Instructor in Piano and Pipe Organ* (1901), 1898.
SYLVIA JOSEPHINE SOUPART, M. A., *Instructor in Education* (1931), 1925.
HENRY WITHERS SPEIDEN, M. S. C. E., *Instructor in Civil Engineering* (1935), 1931.
ALFRED REEVES STANLEY, M. S., PH. D., *Instructor in Bacteriology* (1935), 1930.
JOSEPH K. STEWART, PH. D., *Instructor in Mathematics* (1934), 1930.
LUCILE STRICKLAND, M. A.,[7] *Instructor in Education* (1932).
BEATRICE THOMAS, B. S., *Instructor in Physical Education* (1928).
CHARLES DANSER THOMAS, M. S.,[1] *Instructor in Physics* (1931), 1928.
DANA WELLS, M. A., *Instructor in Geology* (1930).
HAROLD WENTWORTH, PH. D., *Instructor in English* (1934).
RUFUS ASA WEST, *Instructor in Metal-working* (1919), 1892.
NELL WHITE, M. S., *Instructor in Home Economics and Education and Assistant Teacher Trainer* (1935).
MAY LANDSTREET WILT, M. A., *Instructor in Education* (1931), 1924.
ERNEST L. ZIMMERMAN, B. S., *Instructor in Education* (1932).

[1]On leave 1936-37.
[7]Resigned August 31, 1936.

LECTURERS

FRANK C. HAYMOND, A. B., *Lecturer in Law* (1935).
VERNON FRANK PARRY, M. S.,[1] *Lecturer in Industrial Sciences* (1935), 1931.
JAMES J. ROBBINS, M. A.,[2] *Lecturer in Political Science* (1935).
MARY M. SHURTLEFF, M. A.,[3] *Lecturer in Education* (1935).
JOHN NATHAN SIMPSON, A. B., M. D., *Lecturer in History of Medicine and Dean Emeritus, School of Medicine* (1935), 1902.
FESTUS PAUL SUMMERS, PH. D., *Archivist and Lecturer in History* (1935), 1932.

ASSISTANTS

LYDA M. ARNETT, JR., B. S., *Graduate Assistant in Chemistry* (1936).
LOUIS AZAR, A. B., *Graduate Assistant in Chemistry* (1936).
ELEANOR M. BARNETT, A. B., *Graduate Assistant in Physics* (1936).
MARION LYNN BUCHANAN, B. S., *Graduate Assistant in Animal Husbandry* (1935).
ALLEN BYRON CUNNINGHAM, M. S., *Graduate Assistant in Mathematics* (1935).
HARLEY LEROY DEARBORN, *Assistant to Professor of Military Science and Tactics* (1921).
BERNARD R. DRAKE, A. B., *Graduate Assistant in Chemistry* (1936).
HARRY EDGAR FLESHER, JR., A. B., *Graduate Assistant in Education* (1936).
RICHARD HUDDLESTON FLETCHER, B. S., *Graduate Assistant in Farm Economics* (1936).
LOWELL EDWIN FOLSOM, B. S., *Graduate Assistant in Farm Economics* (1936).
ELIHU LISTER FORTNEY, A. B., *Technician, School of Medicine* (1936).
SIDNEY S. GALPIN, A. B., *Assistant in Geology* (1936).
MARSHALL GLENN, B. S. AGR., *Assistant in Physical Education* (1934).
ELWOOD OBED HAMSTEAD, A. B., *Graduate Assistant in Entomology* (1936).

[1]Resigned June 30, 1936.
[2]Resigned August 27, 1936.
[3]Resigned May 31, 1936.

PETER ELLIS HAMSTEAD, M. S., *Graduate Assistant in Biology* (1935).
HOWARD C. HARDY, A. B., *Graduate Assistant in Physics* (1936).
FABRY LIVINGSTON HAWK, M. T., *Technologist, School of Medicine* (1935).
DONALD E. HOFFMASTER, M. S., *Graduate Assistant in Plant Pathology* (1936).
LUNSFORD BIGONY HOLLAND, B. S. C. E., *Graduate Assistant in Civil Engineering* (1936).
KATHRYN HUFFMAN, A. B., M. A., *Research Assistant in Bacteriology* (1936).
HARRY ALLAN KEENER, B. S., *Graduate Assistant in Dairy Husbandry* (1936).
STANLEY JAMES KLYZA, A. B., B. S., *Assistant in Biochemistry and Pharmacology* (1935).
REGINALD LAWSON, A. M., *Graduate Assistant in English* (1935).
JOHN E. MARSHALL, A. B., *Graduate Assistant in English* (1936).
VIRGINIA CHRISMAN MCWHORTER, *Assistant in Music* (1935).
MARGARET MILLER, B. A., A. M., *Graduate Assistant in English* (1936).
WESLEY ORTON MORRIS, B. S., *Graduate Assistant in Education* (1936).
WILLIAM E. NELS, A. B., *Graduate Assistant in History* (1936).
RUSSELL REMAGE, JR., A. B., *Graduate Assistant in Mathematics* (1936).
EUGENE ROGERS, A. B., *Graduate Assistant in Chemistry* (1936).
HENRY THOMAS SCHULTZ, *Assistant to Professor of Military Science and Tactics* (1925).
NELLE SHEPHERD, B. S. H. E., *Assistant in Home Economics* (1935).
BRUCE SIDELL, B. S. CH. E., *Graduate Assistant in Chemical Engineering* (1936).
JOHN N. TULLY, A. B., B. S., *Graduate Assistant in Chemistry* (1935).
CHARLES B. WAGNER, B. S., *Graduate Assistant in Chemistry* (1935).
RAYMOND C. WHITE, B. S., M. S., *Graduate Assistant in Chemistry* (1936).
GEORGE H. WOODWORTH, B. S., *Graduate Assistant in Chemistry* (1936).
GUY B. YOUNG, A. B., *Graduate Assistant in Chemistry* (1936).
JOSEPH EMMET YOUNG, *Assistant to Professor of Military Science and Tactics* (1932).

THE UNIVERSITY DEMONSTRATION HIGH-SCHOOL STAFF

GEORGE HENRY COLEBANK, M. A., *Principal* (1928).
ELLA LOUISE BOGGESS, M. A., *Home Economics* (1928).
EDWARD C. BOWLBY, B. S. IND. ED., *Industrial Arts* (1932).
J. NED BRYAN, JR., A. B., *(Part-Time) Mathematics* (1936).
RUSSELL WALTER CLINE,[1] M. S., *Vocational Agriculture* (1933), 1928.
KERMIT A. COOK, M. A., *Social Science* (1935).
LUCY MAY COPLIN, M. A., *Social Science* (1931), 1925.
JUNE COZINE, M. A., *Vocational Home Economics* (1936).
EDWARD HERMAN CUBBON, M. A., *Physical Education* (1936), 1933.
JAMES FREDERICK DAVIS, M. S., *Science* (1935).
HELEN WILLIAMS DOLE, M. A., *Physical Education* (1936), 1933.
GEORGE ANDREW FEDERER, JR., M. A., *Science* (1934), 1928.
BERTHA HANDLAN, M. A., *English* (1936).
LONA KATE MEREDITH, A. B., *Art* (1927).
J. DONALD NEILL, A. B., *Social Science* (1936).
CONRAD PAFF, M. A., *Music* (1936).
SARAH FRANCES PERDUE, A. B., *(Part-Time) English* (1936).

[1]On leave 1936-37.

SYLVIA JOSEPHINE SOUPART, M. A., *English* (1931), 1925.
FRANK TALBOTT, A. B., *(Part-Time) English* (1936).
MAY LANDSTREET WILT, M. A., *Mathematics* (1931), 1924.
MILDRED YVONNE WOOFTER, A. B., *(Part-Time) English* (1936).
EARNEST H. WOTRING, B. S. AGR., *Vocational Agriculture* (1936).
ERNEST L. ZIMMERMAN, B. S., *Commerce* (1932).

THE UNIVERSITY LIBRARY STAFF

CHRISTOPHER GEORGE BROUZAS, PH. D., *Librarian* (1935), 1926.
LONNA DENNIS ARNETT, PH. D., *Librarian Emeritus* (1935), 1910.
BARBARA BIERER, A. B., *Assistant, Loan Desk* (1929).
RUTH BLODGETT, A. B., *Assistant, Reserve Desk* (1932).
JENNIE DELAWDER BOUGHNER, A. B., *Reference Librarian* (1927), 1915.
EVELYN PRATT HITE (MRS.), A. B., *Cataloguer* (1924), 1922.
ELEANOR EDDY KNUTTI (MRS.), *Assistant Reference Librarian* (1936), 1923.
VIRGINIA MADIGAN (MRS.), B. S., *Assistant Reference Librarian* (1930).
LENA MAY MATHEWS (MRS.), A. B., *Librarian, College of Law* (1930).
BYRD LEA PICKENS, M. A., *Reserve Desk* (1930).
MARGARET VIRGINIA REAY, A. B., B. S., *Assistant Cataloguer* (1927).
MILDRED A. REED (MRS.), A. B., *Assistant, Loan Desk* (1931).
FLORENCE K. REESE, M. A., *Assistant Cataloguer and Instructor in Library Science* (1935).
MARY L. RICHARDSON HANN (MRS.), A. B., *Loan Desk* (1927).
GEORGIA CHORPENING WADE, A. B., *Assistant, Loan Desk* (1930).

THE WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION STAFF

FRED DENTON FROMME, PH. D., *Director* (1928).
MARTIN ABRAHAM ABRAHAMSEN, M. A., *Assistant Farm Economist* (1936).
RICHARD ATKINS ACKERMAN, M. S., *Assistant Dairy Husbandman, in charge of Reymann Memorial Farms, (P. O. Wardensville, W. Va.)* (1933), 1930.
WALTER WARDLAW ARMENTROUT, PH. D., *Farm Economist* (1934).
LAWRENCE PAUL BATJER, PH. D.,[1] *Assistant Horticulturist, (P. O. Kearneysville, W. Va.)* (1935).
ANTHONY BERG, M. S., *Associate Plant Pathologist* (1925), 1913.
GEORGE AUGUSTUS BOWLING, M. S., *Assistant Dairy Husbandman* (1931).
WALTER MARION BROADFOOT, B. S., *Assistant in Agronomy* (1936).
WILLIAM CARSON BROWN, M. S., *Assistant in Dairy Husbandry* (1936), 1934.
CARLTON HENRY BRUCE, B. S.,[2] *Assistant in Farm Economics* (1934).
CHARLES RUSSEL BURNHAM, PH. D.,[3] *Associate Geneticist* (1936), 1934.
HAZEL CRABILL CAMERON, M. A., *Associate Physiologist* (1936), 1926.
WILLIAM HENRY CHILDS, M. S., *Assistant in Horticulture* (1931).
THOMAS BAIRD CLARK, M. S., *Assistant Poultry Husbandman* (1935), 1927.
FERRIS DEWEY CORNELL, JR., M. S.,[4] *Assistant Farm Economist* (1929), 1921.

[1]Resigned October 15, 1936.
[2]Resigned September 15, 1936.
[3]In cooperation with the United States Department of Agriculture.
[4]On leave 1936-37.

IRA JERIAH DUNCAN, PH. D., *Assistant Agricultural Chemist* (1936), 1930.
ROBERT BARCLAY DUSTMAN, PH. D., *Agricultural Chemist* (1929), 1924.
ARTHUR PINGREE DYE, M. S. AGR., *Assistant in Horticulture* (1930), 1923.
WALTER P. GAINER, B. S. AGR., *Assistant in Farm Economics* (1935).
RALPH JOHN GARBER, PH. D.,[6] *Agronomist* (1923), 1920.
EDWIN GOULD, B. S. AGR.,[3] *Assistant Entomologist, in charge of University Experiment Farm, (P. O. Kearneysville, W. Va.)* (1936), 1929.
HARRY ORAM HENDERSON, PH. D., *Dairy Husbandman* (1928), 1919.
LOUIS FERDINAND HERRMANN, M. S., *Assistant in Farm Economics* (1934).
GERALD JENNY, M. S., *Agricultural Editor* (1929).
JOHN CHARLES JOHNSTON, *Chief Clerk*, (1914).
HARRY EDWARD KNOWLTON, PH. D.,[2] *Horticulturist* (1930), 1919.
LEON H. LEONIAN, PH. D., *Mycologist* (1934), 1927.
VIRGIL GREENE LILLY, PH. D., *Biochemical Assistant in Plant Pathology* (1935), 1927.
EDWARD ALEXANDER LIVESAY, D. SC., *Animal Husbandman* (1919).
JOHN HARWOOD LONGWELL, A. M. AGR., *Assistant Animal Husbandman* (1927), 1921.
LOUIS JOHN MANUS, M. S., *Assistant in Dairy Husbandry* (1936), 1932.
RAY STANLEY MARSH, M. A., *Horticulturist* (1936).
EARL NOEL MCCUBBIN, A. M. AGR.,[5] *Assistant in Horticulture* (1928).
THEODORE CLINTON MCILVAINE, PH. D.,[3] *Associate Agronomist, in charge of Lakin Experiment Farm, (P. O. Lakin, W. Va.)* (1934), 1917.
CHARLES THOMPSON NEFF, JR., A. B., *Treasurer* (1934).
CLAYTON ROBERTS ORTON, PH. D., *Plant Pathologist* (1929).
LEONARD MARION PEAIRS, PH. D., *Entomologist* (1914), 1912.
WILLIAM HENRY PIERRE, PH. D., *Agronomist* (1936), 1929.
GEORGE GORDON POHLMAN, PH. D., *Assistant Agronomist* (1930).
JOHN HARRISON RIETZ, D. V. M., *Associate Veterinarian* (1927).
JACK ASHCRAFT RIGNEY, M. S., *Assistant in Agronomy* (1936).
WILLIAM EARL RUMSEY, B. S. AGR., *Assistant Entomologist* (1893).
FELIX JOHN SCHNEIDERHAN, PH. D., *Associate Plant Pathologist (P. O. Kearneysville, W. Va.)* (1929).
LLOYD MASSENA THURSTON, PH. D.,[5] *Associate Dairy Husbandman* (1931), 1929.
ROSS HOMAN TUCKWILLER, B. S. AGR.,[3] *Assistant Animal Husbandman, (P. O. Lewisburg, W. Va.)* (1916).
AUDREY HOWARD VAN LANDINGHAM, PH. D., *Assistant Chemist* (1934), 1929.
CHARLES EDWARD WEAKLEY, JR., M. A., *Assistant Chemist* (1907).
EVERETT CARL WEITZELL, M. S.,[3] *Assistant Farm Economist* (1936).
KYLE CHESTER WESTOVER, PH. D., *Associate Horticulturist* (1936), 1921.
ERNEST THOMAS WIGHTMAN, M. S. AGR., *Assistant Poultry Husbandman* (1934), 1924.
CHARLES VINYARD WILSON, M. S., *Assistant Animal Husbandman* (1924), 1919.

STATION STAFF COMMITTEES

PROJECTS: Messrs. RIETZ (chairman), BURNHAM, and DUSTMAN.
PUBLICATIONS: Messrs. BOWLING (chairman), PEAIRS, and BERG.

[3]In cooperation with the United States Department of Agriculture.
[5]Resigned June 30, 1936.

THE WEST VIRGINIA AGRICULTURAL EXTENSION DIVISION STAFF

FRED DENTON FROMME, PH. D.,[3] *Director* (1933).

JOHN OLIVER KNAPP, B. S. AGR.,[3] *Assistant Director* (1933), 1917.

LAWRENCE PAUL BATJER, PH. D.,[1] *Extension Horticulturist* (1935).

ANNA MILDRED BOGGS, A. B.,[3] *District Home Demonstration Agent* (1936).

IRA BROOKS BOGGS, B. S. AGR.,[3] *State Boys' Club Agent* (1933), 1929.

LELAND BOOTH, B. S. AGR., *Associate Editor* (1933).

DEE CRANE, *Extension Potato Specialist* (1918).

BENJAMIN FRANKLIN CREECH, B. S. AGR.,[3] *Extension Animal Husbandman* (1919), 1917.

ELIZABETH MARGARET ECKHART, M. A.,[3] *Recreation Specialist* (1928), 1921.

RAY JEROME FRIANT, B. S.,[3] *Extension Agronomist* (1929), 1922.

RALPH JOHN GARBER, PH. D.,[5] *Agronomist* (1929).

RUSSELL HENDERSON GIST, B. S. AGR.,[3] *State Agent* (1933), 1924.

THOMAS DAVIS GRAY, B. S. HORT.,[3] *Extension Landscape Architect* (1920).

CHARLES HENRY HARTLEY, B. S. AGR.,[3] *State Club Leader* (1933), 1914.

GERALD HEEBINK, M. S.,[3] *Extension Dairy Husbandman* (1935).

HARRY ORAM HENDERSON, PH. D., *Dairy Husbandman* (1933).

GERTRUDE HUMPHREYS, A. B.,[3] *State Home Demonstration Agent* (1928), 1918.

HAROLD MARTENEY HYRE, M. S.,[3] *Extension Poultryman* (1933), 1931.

ARNOLD LOUIS KELLER, M. S. AGR.,[3] *Extension Horticulturist in Vegetable Gardening* (1936).

WILLIAM HENRY KENDRICK, B. S.,[3] *Director State 4-H Camp, Weston* (1913).

HARRY EDWARD KNOWLTON, PH. D.,[2] *Horticulturist* (1933).

EDWARD ALEXANDER LIVESAY, D. SC., *Animal Husbandman* (1933).

RAY STANLEY MARSH, M. A., *Horticulturist* (1936).

CLAYTON ROBERTS ORTON, PH. D., *Plant Pathologist* (1933).

WILLIAM HENRY PIERRE, PH. D., *Agronomist* (1936), 1929.

HUGH WILLARD PRETTYMAN, B. S. AGR.,[3] *Extension Horticulturist in Marketing* (1917).

MRS. INEZ PRUDENT, M. S.,[3] *Extension Specialist in Foods and Nutrition* (1936).

AARON HENRY RAPKING, B. D.,[3] *Extension Sociologist in Rural Organization* (1921).

WILLIAM HAVARD ROBERTS, B. S.,[3] *District Agent* (1935).

WALTER CLINTON SCHNOPP, B. S. AGR.,[3] *Extension Editor* (1929), 1923.

GLADYS MAE SCRANAGE, B. S. H. E.,[3] *State Girls' Club Agent* (1934).

EVERETT CLIFTON SHERWOOD, M. S.,[3] *Extension Plant Pathologist* (1920).

REYNOLDS B. SMITH, M. S.,[3] *Extension Forester* (1935).

CHARLES ELLSWORTH STOCKDALE, M. S.,[3] *Extension Economist* (1930), 1916.

JEANNETTA WEIL, *Chief Clerk in charge of Clerks and Stenographers* (1919), 1911.

CHARLES VINYARD WILSON, M. S., *Assistant Extension Animal Husbandman* (1933).

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[1]Resigned October 15, 1936.
[2]Resigned September 15, 1936.
[3]In cooperation with the United States Department of Agriculture.
[5]Resigned June 30, 1936.

THE MINING AND INDUSTRIAL EXTENSION STAFF

MINING EXTENSION

CHARLES ELMER LAWALL, E. M., M. S., *Director of Extension in the Industrial Sciences, Director of the School of Mines, and Professor of Mining Engineering* (1930), 1921.

DENNIS LEE MCELROY, M. S., *Assistant Director of Mining Extension and Director of Fire Service Extension Schools* (1930), 1928.

ALTON M. AYERS, *Instructor in Mining Extension* (1930).

ARTHUR A. HALL, B. S. M. E., *Professor of Electrical Engineering* (1922), 1916.

CLARENCE JACKSON FLIPPEN, *Local Instructor in Mining Extension* (1932).

ROBERT KEDWARD, SR., *Local Instructor in Mining Extension* (1935).

ROBERT LITTLEHALES, *Local Instructor in Mining Extension* (1934).

WALTER SCOTT MOORE, *Local Instructor in Mining Extension* (1934).

JAMES STANLEY POUNDSTONE, *Instructor in Mining Extension* (1924).

WARREN RANGELEY ROBERTS, *Instructor in Mining Extension* (1929).

GERALD RALPH SPINDLER, B. S. E. M., *Instructor in Mining Extension* (1934).

WALTER H. STEEN, *Instructor in Mining Extension* (1935).

WILLIAM BROWN TALBOTT, *Instructor in Mining Extension* (1928).

FRANK TODESCO, *Instructor in Welding* (1935).

HOBART WATSON, *Instructor in Mining Extension* (1925).

E. M. WHITE, B. S., *Instructor in Mining Extension* (1935).

THE MILITARY STAFF

REGULAR ARMY

LELAND SWARTZ DEVORE, LIEUTENANT COLONEL, INFANTRY, *Commandant* (1936), 1923.

ALEXANDER ADAIR, MAJOR, INFANTRY (1936).

WILLARD LAPHAM SMITH, MAJOR, INFANTRY (1932).

MAYBIN H. WILSON, B. E. IN C. E., CAPTAIN CORPS OF ENGINEERS (1936).

ARTHUR A. G. KIRCHHOFF, B. S., C. E., CAPTAIN CORPS OF ENGINEERS (1934).

HENRY THOMAS SCHULTZ, FIRST SERGEANT, CORPS OF ENGINEERS (D. E. M. L.) (1925).

HARLEY LEROY DEARBORN, STAFF SERGEANT, INFANTRY (D. E. M. L.) (1921).

JOSEPH EMMET YOUNG, SERGEANT, INFANTRY (D. E. M. L.) (1932).

RESERVE CORPS

ELMER P. FIZER, SECOND LIEUTENANT, INFANTRY (1935).

LAWRENCE M. WILSON, SECOND LIEUTENANT, INFANTRY (1935).

CHALMERS A. PEAIRS, SECOND LIEUTENANT, INFANTRY (1935).

JAMES C. ROBISON, SECOND LIEUTENANT, INFANTRY (1936).

WARREN W. MANKIN, SECOND LIEUTENANT, INFANTRY (1936).

ALBERT M. MORGAN, SECOND LIEUTENANT, INFANTRY (1936).

HAROLD K. RAMSEY, SECOND LIEUTENANT, INFANTRY (1936).

GEORGE W. POST, SECOND LIEUTENANT, INFANTRY (1936).

ERNEST D. CONAWAY, SECOND LIEUTENANT, ENGINEERS (1936).
HOWARD C. HARDY, SECOND LIEUTENANT, INFANTRY (1936).
VINCENT V. CHANEY, SECOND LIEUTENANT, INFANTRY (1936).
EDWARD O. BERRY, SECOND LIEUTENANT, INFANTRY (1936).
HAROLD B. EAGLE, SECOND LIEUTENANT, INFANTRY (1936).
DWIGHT P. CRUIKSHANK, JR., SECOND LIEUTENANT, INFANTRY (1936).
WALTER R. MENEAR, SECOND LIEUTENANT, ENGINEERS (1936).

THE ATHLETIC STAFF

HARRY ADAMS STANSBURY, B. S., *Director of Athletics* (1916).
FRANK ANTHONY, A. B., *Line Coach in Football* (1935), 1934.
DAVID ALFRED CHRISTOPHER, A. M., *Office Manager* (1923).
MARSHALL GLENN, B. S. AGR., *Head Coach in Basketball and Freshman Coach in Football* (1934), 1933.
ALBERT H. GWYNNE, B. S. P. E., *Coach in Wrestling* (1935).
SAMUEL JOHN MORRIS, M. D., *Medical Adviser* (1935).
IRA ERRETT RODGERS, A. B., *Assistant Coach in Football and Head Coach in Baseball* (1931), 1920.
ARTHUR NEWELL SMITH, A. B., *Coach in Track Athletics, Cross-Country, and Athletic Trainer* (1931), 1923.
LOWRY MCELVAINE STOOPS, A. B., *Assistant Director* (1926).
CHARLES CAMERON TALLMAN, LL. B., *Head Coach in Football* (1929).
EDWARD VACHERESSE, B. S., *Coach in Boxing* (1928).

THE ATHLETIC BOARD

FACULTY MEMBERS: Messrs. CARLIN (chairman), ENNIS, LAWALL, SCHOTT, and STEMPLE.

ALUMNI: Judge CHARLES G. BAKER, Morgantown, and Mr. FRED E. DEEM, Clarksburg.

STUDENT MEMBERS: BERTRAM LANDO.

THE STANDING COMMITTEES*

UNIVERSITY

COMMITTEE ON STUDENT AFFAIRS (GENERAL): Mr. ASPINALL, Director of Student Affairs (chairman); and the chairman of each of the following sub-committees: convocations and public exercises, discipline, student residences, social affairs, University calendar, student publications, student body, student organizations and prizes, and scholarships and loan funds.

(The Director of Student Affairs is a member *ex officio* of all the sub-committees on student affairs.)

CONVOCATIONS AND PUBLIC EXERCISES: Messrs. ASPINALL, CROCKER, CUTHBERT, and KAY; student members PAUL CHAMBERS, BILLIE DOTSON, and HERBERT WELCH.

*The first-named member serves as chairman.

DISCIPLINE: Messrs. REESE and BOOMSLITER and Miss GRIFFIN.

STUDENT RESIDENCES: Messrs. STRAUSBAUGH, DARBY, GRUMBEIN, and WHITTLESEY; Mlles. NOER and WADDELL; and student member ANNA CHEESMAN.

SOCIAL AFFAIRS: Messrs. DARBY, DEVORE, HODGE, and STONE; Mlles. GRIFFIN, HAYES, and NOER; Mrs. DEATRICK; and student members HELEN BAKER, DOROTHY PRAGER, and BERK LYNCH.

UNIVERSITY CALENDAR: Miss NOER and Messrs. CUTHBERT and FRIEND.

STUDENT PUBLICATIONS: Messrs. C. C. WILLIAMS, JR., CHITWOOD, BOOMSLITER, PORTERFIELD, and REED.

STUDENT BODY: President of the student body, HOSMER CROPP; president, Women's Student Government Association, ANNA CHEESMAN; editor-in-chief, *Daily Athenaeum*, HERBERT WELCH; summit of Mountain, GEORGE BAILEY; emperor of Sphinx, WOODROW HILLER; president, Women's Pan-Hellenic Council, MARY E. CHAPMAN; president, Interfraternity Council, HAROLD EAGLE; president, Mortar Board, GLADYS LOCKHART; president, Rhododendron, BILLIE DOTSON.

STUDENT ORGANIZATIONS: Messrs. BALDWIN, HUTCHINSON, FRIDLEY, and PEAIRS.

PRIZES, SCHOLARSHIPS, AND LOAN FUNDS: Messrs. FRASURE, ARMENTROUT, DARBY, and STONE; and Miss NOER.

INSTRUCTIONAL POLICIES AND PRACTICES: Messrs. STRAUSBAUGH, COLLETT, HARRIS, HAYES, JONES, PEAIRS, SPIKER, SPRAY, and C. C. WILLIAMS, JR.

ENTRANCE: The Registrar (chairman) and deans and directors of all colleges and divisions admitting freshmen.

STUDENT ENGLISH: Messrs. JOHNSON, BOOMSLITER, PEAIRS, PORTERFIELD (secretary), and STRAUSBAUGH.

STUDENT FEES: Messrs. NEFF, ASPINALL, and C. C. WILLIAMS, JR.

MILITARY AND PHYSICAL EDUCATION BOARD: Messrs. DEVORE, SCHOTT, and WHITTLESEY.

TEACHER TRAINING: Messrs. L. B. HILL, M. G. BROOKS, CHITWOOD, COLEBANK, DADISMAN, DARBY, JOHNSON, PARSONS, and SAMUEL; Mrs. DEATRICK and Mlles. COLWELL and HINKEL.

COUNCIL ON BIOLOGY: Mr. DODDS and representatives from all departments, colleges, divisions, and schools engaged in work in any phase of the field of biology.

LIBRARY: Messrs. BROUZAS, AMBLER, ARNETT, COLWELL, DODDS, HAYES, JACOBSON, JOHNSON, and PEAIRS.

SUMMER SESSION: Messrs. DADISMAN, L. L. FRIEND, FROMME, HUDELSON, and SHORTRIDGE.

PUBLICATIONS: Messrs. L. L. FRIEND, DICKINSON, HODGE, JENNY, JOHNSON, PEAIRS, and REED.

UTILIZATION OF BUILDINGS AND EQUIPMENT: Messrs. BALDWIN, GRUMBEIN, HAYES, and H. HILL.

BUILDINGS AND GROUNDS: Messrs. GRUMBEIN, C. L. BROOKS, and DYE.

UNIVERSITY EXTENSION: Messrs. ASPINALL, DADISMAN, FROMME, HUDELSON, LAWALL, and SHORTRIDGE.

INDUSTRIAL EDUCATION AND RESEARCH: Messrs. LAWALL, F. E. CLARK, COLWELL, R. P. DAVIS, FROMME, HODGE, and PRICE.

COLLEGE

CLINICAL AND SPECIAL FACILITIES:

School of Medicine: Messrs. WHITTLESEY, FENTON, MAXWELL, and PRIDE.

CONCERTS AND RECITALS:

School of Music: Messrs. CUTHBERT, SHEPARD, and WOOD.

ENGINEERING:

Curricula: Messrs. DOWNS, FORMAN, GRUMBEIN, HAYES, and HODGE.

Schedules: Messrs. HAYES, CARL CATHER, JENNI, and STAAB.

Engineering Society: Messrs. C. R. JONES, FORMAN, GRUMBEIN, HODGE, NELSON, and STAAB.

ENTRANCE:

School of Medicine: Messrs. DODDS, CHANDLER, EMERSON, FENTON, and RAFFERTY.

EXECUTIVE COMMITTEE:

School of Medicine: Messrs. VAN LIERE, DODDS, and WHITTLESEY.

FARM PRACTICE:

College of Agriculture: Messrs. BOWLING, ARMENTROUT, POHLMAN, WESTOVER, and WILSON.

INTRAMURAL ATHLETICS:

Division of Physical Education: Messrs. SAMUEL, L. M. JONES, SCHOTT, STANSBURY, and senior managers.

LIBRARY:

College of Agriculture and Agricultural Experiment Station: Messrs. PEAIRS, DUSTMAN, LONGWELL, and PIERRE, and Miss COLWELL.

College of Education: Messrs. BALDWIN, FEDERER, and WHEAT.

College of Engineering and Mechanic Arts: Messrs. HAYES and E. C. JONES.

School of Medicine: Messrs. CHANDLER, DODDS, SPRAY, RAFFERTY, and WHITTLESEY.

PLACEMENT AND RECOMMENDATION:

College of Agriculture: Messrs. HENDERSON, LIVESAY, and PARSONS.

Division of Physical Education: Mr. SCHOTT and Miss GRIFFIN.

RESEARCH:

School of Medicine: Messrs. VAN LIERE, EMERSON, LAWLESS, NORTHUP, and SPRAY.

SCHOLARSHIP:

College of Agriculture: Messrs. POHLMAN and HENDERSON and Miss NOER.

College of Arts and Sciences: Messrs. WINTER, FORD, HARRIS, S. MORRIS, and SPIKER.

College of Education: Miss POLLOCK and Messrs. HILL and STEMPLE.

College of Engineering and Mechanic Arts: Messrs. HALL, C. R. JONES, and KOEHLER.

School of Medicine: Messrs. DODDS, CHANDLER, EMERSON, FENTON, and RAFFERTY.

School of Music: Messrs. CUTHBERT and SHEPARD and Miss HINKEL.

College of Pharmacy: Messrs. HAYMAN, BERGY, and GEILER.

Division of Physical Education: Messrs. SAMUEL and L. M. JONES; Mlles. GRIFFIN and HURST.

STUDENT COURSES AND HOURS:

College of Agriculture: Messrs. FROMME, LONGWELL, and PARSONS, and Miss COLWELL.

Division of Physical Education: Mr. SCHOTT and Miss GRIFFIN.

INTRODUCTION TO AGRICULTURE:

College of Agriculture: Messrs. OLNEY, ARMENTROUT, and DUSTMAN.

FRATERNITY ADVISERS

Beta Theta Pi, A. M. REESE; Delta Tau Delta, CARL FRASURE; Kappa Alpha, T. D. GRAY; Kappa Sigma, A. J. DADISMAN; Phi Delta Theta, ROBERT COLWELL; Phi Kappa Psi, A. W. PORTERFIELD; Phi Kappa Sigma, RICHARD ASPINALL; Phi Kappa Tau, W. W. HODGE; Phi Sigma Delta, F. R. WHITTLESEY; Phi Sigma Kappa, S. J. MORRIS; Pi Kappa Alpha, WILSON P. SHORTRIDGE; Pi Kappa Phi, JOHN C. JOHNSTON; Pi Lambda Phi, STEPHEN F. CROCKER; Sigma Chi, THOMAS E. ENNIS; Sigma Nu, RUSSELL H. GIST; Sigma Phi Epsilon, HARRY G. WHEAT; Tau Kappa Epsilon, J. A. RIGNEY.

SORORITY SUPERVISION

Supervision of all sororities (see page 83) on the Campus is vested in the Office of the Dean of Women.

Part II

GENERAL INFORMATION*

HISTORY

West Virginia University originated from the National Land-Grant Act of June 2, 1862, and the subsequent action of the Legislature in accepting and carrying out the provisions of the Act. On January 9, 1866, the board of trustees of the Monongalia Academy at Morgantown tendered to the Legislature, for use of the contemplated State or land grant college, all its property, including Woodburn Female Seminary, on condition that the college should be located at Morgantown. On January 30, 1867, the Legislature accepted the property and on February 7 passed an act permanently establishing "The Agricultural College of West Virginia" and authorizing the Governor to appoint 11 suitable persons as a Board of Visitors.

The Visitors held the first meeting on April 3, 1867, at which time they appointed Dr. Alexander Martin president, and established collegiate, scientific, and agricultural departments of instruction. Military training was introduced at this time under the provisions of the Morrill Act.

By an act of December 4, 1868, the name of the College was changed to "West Virginia University" and the "Board of Visitors" to the "Board of Regents." July 1, 1919, the "Board of Regents" was merged in the "State Board of Education." By an act passed April 14, 1927, the control of the University was vested in a "Board of Governors."

Following the establishment of the University, expansion was rapid. The College of Law was added in 1878; the College of Engineering and Mechanic Arts in 1887; the Agricultural Experiment Station in 1888; the College of Agriculture and the School of Music in 1897; and the School of Medicine in 1902.

With the opening of the new century two decades of consistent growth were entered upon. A Department of Pharmacy was added to the School of Medicine in 1914; in the same year the Department of Home Economics, until then a unit in the College of Arts and Sciences, was transferred to the College of Agriculture. The Division of Agricultural Extension was organized in 1912, and Liberal Arts extension centers were established as early as 1916.

In 1917 an extensive building program was inaugurated, which has added eight major units to the Campus. The Engineering Experiment Station was organized in 1921 and the School of Mines in 1926. In 1927 the work in Education, hitherto administered in a department of the College of Arts and Sciences, was transferred to the newly-created College of Education.

Paralleling this development, faculties were methodically strengthened, curricular adjustments steadily undertaken, and foundations laid for social,

*NOTE: West Virginia University reserves the right, without further notice, to revise the organization, fees, offerings, and requirements herein announced.

industrial, and scientific research agencies as bases for still broader fields of service. The movement culminated in the order of the Board of Governors of January, 1930, providing for the establishment of a Graduate School looking beyond the degrees of Master of Arts and Master of Science, which the University had steadily conferred for half a century, to the more advanced curricula leading to the degree of Doctor of Philosophy.

In 1936 the Department of Pharmacy was discontinued as a unit in the School of Medicine and was established as a College of Pharmacy.

The University has had 11 regular presidents: Alexander Martin, 1867-1875; John W. Scott (acting), 1875-1877; John Rhey Thompson, 1877-1881; Daniel Boardman Purinton (acting), 1881-1882; William L. Wilson, 1882-1883; Robert C. Berkeley (Chairman of the Faculty), 1883-1885; Eli Marsh Turner, 1885-1893; Powell Benton Reynolds (acting), 1893-1895; James L. Goodnight, 1895-1897; Jerome Hall Raymond, 1897-1901; Daniel Boardman Purinton, 1901-1911; Thomas Edward Hodges, 1911-1914; Frank Butler Trotter (acting), 1914-1916; 1916-1928; John Roscoe Turner, 1928-1935; Robert Allen Armstrong (acting), 1935; Chauncey Samuel Boucher, 1935-.

LOCATION

West Virginia University is located in Morgantown, the seat of Monongalia county, immediately south of the Mason-Dixon line where it forms the boundary line between southwestern Pennsylvania and northern West Virginia. The West Virginia-Maryland boundary also is only a few miles distant to the eastward.

A thriving city of 17,200, Morgantown is situated in the center of an important agricultural, quarrying, oil and gas, and bituminous coal mining region. It is noted also for its manufacture of fine glassware.

Sixteen hours distant by rail from New York City and three hours from Pittsburgh, Morgantown may be reached from the east either through Grafton, W. Va., Pittsburgh or Connellsville, Pa. It is served by two railroads, the Baltimore and Ohio and the Pennsylvania.

Motorists can reach Morgantown from the National Pike through Uniontown or Washington, Pennsylvania, Wheeling, West Virginia, or Cumberland, Maryland, and from the Northwestern Turnpike (U. S. Route 50) through Oakland, Maryland, or Grafton, West Virginia.

Morgantown is connected with the national network of motor bus lines through the Blue Ridge (Greyhound) system, and has hourly local service with other surrounding towns and cities.

PHYSICAL PLANT

BUILDINGS AND GROUNDS

West Virginia University's Campus comprises about 66 acres near the center of Morgantown on high ground overlooking the river and much of the surrounding countryside. The physical plant includes 28 State owned buildings or structures on the Campus, two buildings leased from private owners, five demonstration and experimental farms near Morgantown, and three experimental farms and three agricultural extension centers located at suitable points throughout the State.

The structures on the main Campus, with dates of construction or acquisition, are: Martin Hall (1870), Experiment Station Building (1873), Woodburn Hall (1874), Commencement Hall (1889), Science Hall (1893), Mechanical Hall (1902). Armory (1902), Old Library (1902), President's House (1905), Heating Plant (1906), Music Building (1914), Horticulture Greenhouse (1915), Medical Building (1916), Oglebay Hall (1918), Woman's Hall (1919), Plant Pathology Greenhouse (1920), Law Building (1923), Mountaineer Field (1924), Cafeteria (1924), Hall of Chemistry (1925), Men's Field House (1928), Elizabeth Moore Hall (1928), Faculty Club (1928), School of Music Annex (1928), University Library (1931), University Demonstration High School (1933), two wings to Woman's Hall (1935), and Men's Dormitory (1935).

The farms, with dates of acquisition, are: Dairy Husbandry Farm, 175 acres (1899), Horticulture Farm, 62.5 acres (1916), Animal Husbandry Farm, 321 acres (1916), Poultry Husbandry Farm, 20 acres (1916), and Agronomy Farm, 102 acres (1916) near Morgantown; University Experiment Farm at Kearneysville, Jefferson County, 158 acres (1930); Reymann Memorial Farms at Wardensville, Hardy County, 930 acres (1917); and Lakin Experiment Farm at Lakin, Mason County, 74 acres, leased from the State Board of Control (1921).

The agricultural extension centers, with dates of acquisition, are: the Demonstration Community Packing Plant at Inwood, Berkeley County (1919), the 4-H Club Camp at Jackson's Mill, Lewis County, (1921), and the Recreation Center at Oglebay Park, Ohio County (1926).

The following buildings are leased from private owners: Infirmary (1925) and Home Management House (1917).

UNIVERSITY LIBRARY

The Library building, completed in 1931, is the first unit of a larger structure. It is modern Georgian style in architecture, constructed of Indiana limestone and brick, and, with equipment, cost about $400,000. Approximately 150 feet long and 130 feet wide, the building is three stories in height. The Library contains 175,148* volumes and subscribes for about 700 periodicals, not including the proceedings of learned societies or publications of educational institutions.

The publications on law, numbering 30,000 volumes, are shelved in the College of Law building; all other collections are found in the Library.

Students specializing in geology have access to the voluminous library of the West Virginia Geological Survey.

The Mailing Service collection numbers from 12,000 to 15,000 pieces, including about 2,000 volumes of dramas, books, and programs for special occasions. It is a part of the reference department and its resources are open to University students and teachers.

Except during vacations and holidays the Library is open from 7:45 a. m. to 10 p. m., Monday to Saturday; and 2 p. m. to 5 p. m., Sunday. During vacations the hours are from 9 a. m. to 4 p. m.

*As of December 11, 1936.

FUNDS

The funds for maintaining the University, the Agricultural Experiment Station, and the Agricultural Extension Division are derived from the following sources: (1) Interest on the land-grant endowment of $115,750; (2) the Morrill-Nelson fund; (3) the Hatch fund; (4) the Adams fund; (5) the Smith-Hughes and the Smith-Lever funds; (6) the Purnell fund; (7) the Capper-Ketcham fund; (8) the Bankhead-Jones fund; (9) additional Federal Cooperative funds; (10) biennial appropriations by the Legislature; (11) fees and tuition; (12) income derived from the work of the Agricultural Experiment Station and the College of Agriculture as well as the income from dormitories, dining halls, bookstore, student activities, etc.; and (13) contributions by private benefactors for the support of scholarships, loan funds and prizes.

GOVERNMENT AND ORGANIZATION

The financial and business affairs of the University, as well as of all other State institutions, are directed by the *West Virginia Board of Control.* This Board is composed of three members, all of whom are appointed by the Governor, who also designates one member to be the Board's president.

The academic control of the University is vested in the *Board of Governors.* The Board is bi-partisan and consists of seven members who are appointed by the Governor for a term of four years.

The University year is divided into two semesters of 18 weeks each, and a summer session of two terms of approximately six weeks each.

Matters of policy concerning the several instructional units of the University are determined by the *Council of Administration,* composed of the president, the registrar, and the deans and directors of all colleges and divisions, as well as other administrative officers who may be called to take part in the deliberations of the Council.

The *University Senate,* a legislative body with original jurisdiction over all matters that concern the entire University and all matters that concern more than one college or division, is composed of the president, the registrar, all professors of full rank in all colleges, schools, and divisions, and all heads of departments.

The *Graduate Faculty,* composed of all faculty members who teach courses on the graduate level, sets the specific requirements and standards of quality for admission to candidacy for graduate degrees and for the award of graduate degrees. For a list of members of the *Graduate Council* see page 8.

The *Committee on Student Affairs* acts as an integral part of the whole organization of the University. Its program is bound up with that of the University as a whole, designed to serve the larger academic and social objectives of modern education. For a list of members see page 22.

The organization of the University, together with the dates of the establishment of the various colleges, etc., follows:

Colleges: College of Arts and Sciences, 1867; College of Law, 1878; College of Engineering and Mechanic Arts, 1887; College of Agriculture, 1897; College of Education, 1927; College of Pharmacy, 1936.

Schools: School of Music, 1897; School of Medicine: Courses in Medicine, 1902; School of Mines, 1926; Graduate School, 1930; The Summer School, 1898.

Divisions: Division of Military Science and Tactics, 1867; Division of Physical Education, 1928.

Experiment Stations and Research Bureaus: Agricultural Experiment Station, 1888; Engineering Experiment Station, 1921; Bureau for Government Research, 1931; Division of Documents, 1934.

Extension Service: Agricultural Extension, 1912; Mining and Industrial Extension, 1914; Liberal Arts Extension, 1916; Extension in Education, 1916.

The College of Arts and Sciences, the College of Engineering and Mechanic Arts, the College of Agriculture, the College of Pharmacy, the School of Mines, the Division of Physical Education, and the School of Music are all degree-granting units admitting freshmen. The College of Law, the College of Education, and the School of Medicine (Courses in Medicine) are professional colleges and schools requiring from two to three years of academic training as a foundation for the professional work. All graduate instruction is administered by the Graduate Council and the Graduate Faculty.

THE COLLEGE OF ARTS AND SCIENCES

The University, through its liberal arts college, offers that academic training which is so essential today as a foundation for good citizenship, enlightened leadership, and effective professional or technical training. It puts thoroughness above breadth of offerings. It provides a curriculum rigid enough to conserve the best in the cultural subjects, yet elastic enough to meet the varying talents and aptitudes of individual students.

Present-day standards in business, industry, and the professions are becoming more and more exacting. Increasing emphasis is being placed upon a liberal education as a foundation for technical or professional work. As a consequence, the paths to the professions lead through this college. Preprofessional curricula have been arranged in law (three years), education (two years), medicine (two, three, or four years), and dentistry (two or three years).

The instruction in the College of Arts and Sciences is administered through the following departments: botany; chemistry; classics; economics, business administration, and sociology; English language and literature; geology, mineralogy and geography; Germanic languages and literatures; history; home economics; journalism; library science; mathematics; philosophy and psychology; physics; political science; public speaking; Romance languages and literatures; and zoology.

The College of Arts and Sciences is organized into a lower division and an upper division. The lower division comprises the work of the first and second years, and the upper division the work of the third and fourth years. This organization became effective July 1, 1930, but students who entered this College prior to that date may meet either the requirements of the new plan or the former requirements.

The work of the lower division is intended to complete what is usually termed "a general education." It rounds out the program of study pursued

in the secondary school. It is based on the belief that the student should become familiar with different fields of knowledge to the end that he may select wisely the field for specialization.

Students who meet all requirements of the lower division will, upon application, be awarded the Junior Certificate of the College of Arts and Sciences. This certificate, or equivalent, is required for admission to the upper division.

Experience has shown that students whose average in all high school subjects was below 75%, or who ranked in the lowest one-fourth of the high school graduating class, or those who make a low score on the intelligence test, will probably not succeed in college work. Such students should generally not be encouraged to become candidates for a degree, or perhaps not even candidates for the junior certificate unless or until they demonstrate by work in this College that they are qualified for regular work. Such students, as well as those who do not expect to spend more than one or two years in this College and who are not candidates for the junior certificate may, with the approval of the adviser, elect such lower division courses as they are qualified to pursue with profit.

In the upper division, the work is based on the belief that an educated man or woman should not only know the fundamentals of several branches of study but should have a rather thorough knowledge of some selected field. In the upper division, therefore, the student concentrates on a major and one or two minor subjects selected from the following list of subjects: English, public speaking, journalism, classics, German, French, Spanish, political science, history, economics, sociology, philosophy, psychology, physics, chemistry, mathematics, botany, zoology, entomology, geology, and home economics.

Two baccalaureate degrees are granted in this College: Bachelor of Arts (A. B.) and Bachelor of Science (B. S.) The Bachelor of Arts degree is conferred upon those who pursue the four years of academic work in the College or upon those who pursue three years of work in this College and one year in either the College of Law or the School of Medicine.[1]

The Bachelor of Science degree is conferred upon those who pursue the combined scientific and medical courses.[1]

As a part of the University Extension Service the College of Arts and Sciences since 1916 has conducted extension courses at several centers in various parts of the State, corresponding in every particular, as to class requirements and credits, with courses offered on the Campus.

THE COLLEGE OF LAW

The College of Law, established in 1878, is the oldest professional school in the University.

In 1897 the course of study was increased from one year to two years. Since 1912 the degree of Bachelor of Laws has been conferred only upon the satisfactory completion of three years of law-school work. From 1913 to 1924 the requirement for admission was one year of college work; from 1924 to 1931 the requirement was two years. Since 1931 the minimum pre-law requirement for the degree has been three years of work of collegiate grade in an institution of approved standing.

[1]See page 63, "Classification of Students."

In 1914 the College of Law was admitted to membership in the Association of American Law Schools, which is an organization of leading schools for the purpose of maintaining high standards in legal education. The College of Law is on the list of schools approved by the American Bar Association.

THE COLLEGE OF ENGINEERING AND MECHANIC ARTS

The purpose of the College of Engineering and Mechanic Arts is to instruct students in the fundamental sciences and arts upon which all engineering rests, and to impart such special and technical knowledge of the various branches of engineering as will enable its graduates to enter them and maintain themselves while gaining their professional experience. To accomplish this purpose the work of the college is classified under the following curricula: chemical engineering, civil engineering, electrical engineering, and mechanical engineering.

For those students desiring a broader training than is offered in the four-year curricula, a five-year course may be taken leading to two degrees. The latter course will also benefit those who desire to take their work more leisurely, since fewer semester hours are required in any given year.

The work of the first year is common in chemical, civil, electrical, and mechanical engineering. This is also true for mining engineering, which however is taught in the School of Mines. Because of this common course, the student may postpone his choice of engineering branch until the end of the first year. By that time he becomes sufficiently acquainted with the various fields to make a wiser selection than would be possible on first entering college. In the second year differentiation starts, increasing year by year.

The object of the chemical engineering curriculum is to qualify students to design, build, and manage manufacturing plants, in which the products of manufacture are based on chemical processes, and to fit them for professional employment as industrial chemists and chemical engineers. In addition to many courses which are required of all students, two options are offered in the upper-class work—one in metallurgy and the other in the field of ceramics.

The course in civil engineering is planned to give the student a substantial foundation in the fields of highway, railway, sanitary, municipal, structural, and hydraulic engineering. The field of civil engineering is one of the broadest of engineering professions, and yet the work of the civil engineer rests upon a relatively compact body of scientific principles. In the third and fourth years the student has a choice between a general civil engineering option and a sanitary engineering option. If he takes the civil engineering option he may choose between work in hydraulic engineering and in highway engineering.

The course in electrical engineering is planned to give the student a thorough grounding in the engineering features connected with the design, construction, and operation of the electrical part of engineering properties. A large proportion of the work in mechanical engineering is included in the electrical engineering course. In the professional work of the last two years theory, problem work, design, and laboratory practice are combined to give the student a broad training. In the fourth year the student is given a choice between a number of options.

Mechanical engineering deals essentially with the design and construction of machinery, the development and utilization of power, and the production in industry. To this end the student takes a considerable amount of shop work in addition to the theoretical courses in the fundamental sciences of mathematics, chemistry, and physics. In the upper-class work attention is given to machine design, power-plant design, refrigeration, heating and ventilation, as well as to production methods and industrial management.

The Engineering Experiment Station:

The chief functions of the Engineering Experiment Station are the encouragement and prosecution of research and investigations that will enhance the industrial and economic welfare of the people of West Virginia and the stimulation and training of graduate students in research activities. The research undertaken by the Station therefore is primarily concerned with investigations in the production, processing, and utilization of the natural resources of West Virginia; investigations that will aid the existing industries of the State and promote the development of new industries; and investigations that will aid in the planning, design, and development of the public works of the State. As a consequence of this program, the subjects receiving particular attention by the staff of the Station are coal, oil, gas, clays, stone, sand, timber, water power, sewerage, sanitation, and road building.

The Station will assist in compiling surveys and in conducting investigations of the industrial requirements and possibilities of any region or community in the State. It cooperates with the West Virginia University Bureau for Government Research, the Agricultural Experiment Station, the State Road Commission, the State Geological Survey, the State Department of Health, the School of Mines, the national engineering societies, and state or national agencies whose assistance may promote the more effective fulfillment of the Station's functions.

To aid industrial organizations in this State that lack facilities and personnel to undertake important research and investigations which arise in the development of their operations, the Station stands ready where time and facilities permit, to assist in the prosecution of investigations on their fundamental problems. Such services are free, but any special equipment, materials, or labor that may be needed must be supplied by the organization for which the work is done.

The results of the studies, surveys, investigations, and research of the Experiment Station are published in bulletin form and may be obtained upon application to the Director of the Station.

THE COLLEGE OF AGRICULTURE

All the agricultural, forestry, and home economics work of the University is organized in the College of Agriculture. For the purpose of administration, the College is divided into five branches: the Agricultural Experiment Station, organized for research and experimental work; resident instruction in agriculture; resident instruction in forestry; resident instruction in home economics; and extension work in agriculture, home economics, and boys' and girls' club work, given by the Division of Agricultural Extension to citizens of the State who are not in residence at the College. The work of the four

divisions is closely interrelated. Although some members of the staff devote full time to either college instruction, research, or extension work, many others divide their time among two or three divisions.

Instruction in Agriculture:

The training offered in agriculture is directed to fit the student for farm life or for the professional and business fields. Graduates may engage in farming as managers or as farm owners, in the teaching of agriculture in high schools or colleges, in extension work as county agents or specialists, or in research work in experiment stations or in other organizations. They may engage in business related to farming such as dairy manufactures, meat processing, seeds and nursery stock, feeds and fertilizers, or marketing.

The curriculum leading to the degree of Bachelor of Science in Agriculture is designed to provide a broad and well-grounded training in the general field of agriculture so that the graduate may be prepared for occupations requiring such general knowledge, and may have the necessary foundation for such specialization as he may elect to pursue.

All candidates for the degree will follow a uniform curriculum for the first two years, which includes courses in the sciences that are fundamental to agriculture, together with certain specified courses in agriculture. During the last two years, the student is permitted a choice of one of four curricula—agricultural economics, animal industry, plant industry, and vocational agriculture. Certain basic courses in animal husbandry, dairy husbandry and horticulture are required in each of these curricula.

For the use of the students the following laboratories are maintained in the college: agricultural chemistry, agronomy, soils, and genetics, animal husbandry, animal pathology, dairy husbandry, entomology, farm economics, farm shop work, horticulture, nutrition, plant pathology, and poultry husbandry.

Instruction in Forestry:

A curriculum has been established in the College of Agriculture covering the full four years of a course in professional forestry. Together with laboratory work in silviculture, forest management, forest utilization, and forest protection, considerable time is spent in the field on land owned by the University and on neighboring state and national forests. There is opportunity to specialize in game management during the junior and senior years. The degree of Bachelor of Science in Forestry is offered.

Instruction in Home Economics:

The course leading to the degree of Bachelor of Science in Home Economics is planned for women students and especially for those who wish to teach home economics in vocational schools and other institutions or who wish to learn the business of home keeping. The aim of the course is to give women such training as will best prepare them to assume their responsibilities as members of a household and a community. This training includes: (1) a knowledge of those sciences which are fundamental to an understanding of the principles of home economics; (2) technical courses in food and nutrition, the applied arts, clothing and textiles, health and child care, home management, and teacher training; (3) a general knowledge of the laws of production and consumption and social relationships obtained from courses in history

and sociology; (4) an appreciation and intelligent use of English, developed through courses in oral and written English and in study of English literature.

To provide for this training a curriculum is suggested. Sufficient electives are allowed to permit the student to qualify for home economics, or to select other courses in which she is interested.

The department occupies two floors of the wing of Oglebay Hall. On the first floor are two large, well-equipped food laboratories, a suite of rooms consisting of dining room, kitchen, and reception room, a textile laboratory, a reading room, and the offices of the department. On the second floor are three laboratories equipped for work in clothing and applied arts. There is also on this floor a large recitation room.

A modernly equipped house near the University is used for a Home Management Laboratory.

The West Virginia Agricultural Experiment Station:

The Agricultural Experiment Station was established in the University by the Board of Regents in 1888 by authority of an act of Congress known as the Hatch Act. Further support was given by acts of Congress known as the Adams Act, approved June 30, 1906, the Purnell Act, approved February 24, 1925, and the Bankhead-Jones Act, approved June 29, 1935. The work of the Station is supported also by State appropriations.

Investigations are being conducted by the Station in the fields of animal husbandry, dairy husbandry, poultry husbandry, field crops, horticulture, entomology, plant pathology, agricultural chemistry, soils, farm economics, farm mechanics, home economics, and animal pathology, the total number of investigations being classified into about 70 research projects.

In addition to the five farms situated at Morgantown, described elsewhere in this Catalog,[1] branches of the Agricultural Experiment Station are maintained at Wardensville, Hardy county; Lakin, Mason county; and Kearneysville, Jefferson county.

Experimental work is also being carried on at Lewisburg, Hillsboro, and elsewhere throughout the State.

Agricultural Extension:

By act of the Legislature of 1913, amended in 1915, "in order to promote the improvement and advancement of agriculture, domestic science, and rural life among the people of the several counties of the State," there was "created and established in the College of Agriculture an Agricultural Extension Division to be coordinate with the resident instruction division and the Agricultural Experiment Station" of the College. This service is financed and administered with the cooperation of Federal, State, and county governments.

The work originally undertaken has been expanded subsequently to include the 4-H Club Camp for boys and girls, established at Jackson's Mill in 1921 for the purpose of teaching standards of excellence in agriculture and home economics, and the recreation center, established at Oglebay Park (Wheeling) in 1926, which has undertaken the task of developing adequate programs for improving the use of leisure time of both rural and urban citizens and for the training of community leaders.

[1]See page 29.

Short Courses and Special Schools:

In addition to the instruction of collegiate grade offered, the College of Agriculture maintains a series of annual short courses and special schools for the benefit of adult residents in the State who wish to obtain, in brief periods, education in certain fields. This series includes the Dairy and Ice Cream Short Course, the Horticulture Extension School, Farm and Home Week, Junior Farmers' Week, the Garden School, and the Junior Homemakers' Conference.

THE COLLEGE OF EDUCATION

In 1901 a Department of Education was established in the College of Arts and Sciences of West Virginia University. Subsequently, departments of education grew up in the College of Agriculture, the College of Engineering, and the School of Music. In 1927 the College of Education was established by the Board of Governors of the University to unify professional training for school service.

The order of the Board of Governors creating the College of Education gives it "full control in the University of all professional teacher preparation, directive control in the University of all academic teacher preparation, and full control in the University in recommending to the State Department of Education for the certification of teachers, principals, supervisors, and superintendents."

Through its undergraduate and graduate courses, its laboratory school, and its encouragement and direction of educational investigation and research the College of Education aims to contribute to the educational efficiency of West Virginia by inculcating a liberal and more scientific conception of the functions of the public schools of the State and by directing the academic preparation and providing the professional training of secondary-school teachers, secondary-school principals, secondary-school supervisors, elementary-school principals, elementary-school supervisors, county superintendents, college teachers, educational counselors, and educational research specialists. The College of Education comprises the College with its resident courses of instruction and research facilities and the University Demonstration High School with its facilities for observation, student teaching, and experimentation.

The degree of Bachelor of Science in Education requires four years of college work, the first two years of which are done in the College of Arts and Sciences under the supervision of a special adviser. The student registers in the College of Education for the last two years.

THE SCHOOL OF MUSIC

The School of Music, established in the University in 1897, offers two four-year curricula in applied music leading to the degree of Bachelor of Music (B. M.). The work in applied music may be in piano, violin, pipe organ, or voice.

The school is located in two separate buildings, one containing five studios, three class rooms and eight practice rooms, the other containing two studios.

The equipment consists of fifteen upright and ten grand pianos and a

three manual pipe-organ, recently electrified and modernized to conform to all requirements of the American Guild of Organists. The organ is situated in Commencement Hall.

Student Concerts:

Students giving satisfactory performances appear in recital. The object is to afford opportunity for the students to apply in public the proficiency that has been developed in the studio.

All music students are required to attend the regular student recitals, and to take part in them whenever so assigned, and to attend all concerts given under the auspices of the University. They are expected to identify themselves with the various organizations of the school, and are required to enter any to which they are assigned by the director.

Students of the School of Music are not allowed to take part in public programs or to join musical organizations without the consent of their respective teachers and the Director of the School.

Musical Organizations:

The University Orchestra is open to all students who are proficient in the use of orchestral instruments. A thorough drill is given in ensemble playing and members gain an insight into the higher forms of orchestral music. Rehearsals are held weekly and a credit of one hour each semester is granted.

The University Girls' Glee Club is open to all University girls who can sing a part. Rehearsals are held weekly. Students participating receive one hour of credit each semester.

The University Men's Glee Club is open to all University men who can sing a part. Rehearsals are held weekly. Students participating receive one hour of credit per semester.

Concerts are given locally in addition to out-of-town appearances.

THE SCHOOL OF MEDICINE

Instruction in Medicine:

Regular instruction in subjects preparatory to the study of medicine was first given in West Virginia University in 1871, the "chair of anatomy, physiology, and hygiene" having been established in that year. A curriculum covering the first two years of a standard four-year medical course was provided in 1902, and the work was placed in charge of the College of Medicine with a resident faculty of six men. In 1912 the College of Medicine became the School of Medicine. In reorganizing the work in medicine the Board of Regents retained the general character of the curriculum previously offered but provided for a larger faculty, more laboratories, and more adequate equipment.

As at present constituted, the School of Medicine has its own dean and faculty but confers no degrees in medicine. However, it cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree (B. S.) on the completion of two years of medicine.

The School of Medicine is not affiliated with any other college or school of medicine and its students may go where they like to complete their medical studies and receive the M. D. degree. Instruction in medicine is given in the

following departments: anatomy, histology and embryology, biochemistry, pathology, physiology, pharmacology, bacteriology, medicine and physical diagnosis, introductory surgery, and obstetrics.

DR. JOHN NATHAN SIMPSON LECTURESHIP—The West Virginia chapter of the Phi Beta Pi medical fraternity has instituted this lectureship, honoring Dr. John N. Simpson, Dean Emeritus of the School of Medicine. An annual lecture will be given at the University by some one distinguished in medical research or practice.

THE COLLEGE OF PHARMACY

In 1914, responding to the request of the West Virginia State Pharmaceutical Association, the Board of Regents established a Department of Pharmacy in the School of Medicine. The first course offered was a two-year course leading to the degree of Graduate in Pharmacy (Ph. G.).

In 1917 additional courses of three and four years, leading to the degrees of Pharmaceutical Chemistry (Ph. C.) and Bachelor of Science in Pharmacy (B. S. Phar.), were established. Following the requirements of the American Association of Colleges of Pharmacy, of which the College is a member, the course leading to the degree of Graduate in Pharmacy was discontinued in 1924, and the course leading to the degree of Pharmaceutical Chemist was discontinued in 1932, so that a minimum of four years of study is now required.

The College of Pharmacy was established as a separate unit of the University, by order of the Board of Governors, in 1936.

The chief purpose of the college is to provide systematic instruction in pharmacy, its allied sciences, and such other subjects as are deemed essential in the education of a pharmacist, that he may meet the present and future demands of the profession in an able and intelligent manner. Its chief aim is to prepare its students for the intelligent practice of dispensing pharmacy, but it offers the facilities and instruction necessary for the practice of other branches of the profession, which are many and varied.

Graduates of the College of Pharmacy are eligible for examination to practice pharmacy in any state, but graduates of this college who successfully pass the West Virginia State Board of Pharmacy examination are privileged to reciprocate with 45 other states and with the District of Columbia, Alaska, and Porto Rico without further examination, provided they possess the experience requirement of these states before taking the examination.

THE SCHOOL OF MINES

The School of Mines, established at the University in 1926, was given a degree-granting status in July, 1930. For administrative purposes the School of Mines is divided into two departments: (1) the department of mining engineering, and (2) the department of mining and industrial extension. The departmental offices, laboratories, class-room, museum, and model-rooms are located in Mechanical Hall.

RESIDENT INSTRUCTION

The School of Mines offers (1) a four-year course leading to the degree of Bachelor of Science in Engineering of Mines, with options in coal-mining

and oil and gas engineering; and (2) a combined science and engineering course, extending over five years, leading to the degree of Bachelor of Science (at the end of the fourth year), and Bachelor of Science in Engineering of Mines (at the end of the fifth year).

MINING AND INDUSTRIAL EXTENSION

The department of mining and industrial extension in the School of Mines conducts courses of instruction in practical subjects in various sections of the State where groups of individuals wish to study and receive training in subjects pertaining to their every-day work. The department also aims to disseminate useful knowledge which has been amassed by research studies at the University to all classes of citizens in the State, and in this way to bring the University and its opportunities for learning to various groups of students who desire to enroll in its extension department.

The Short Course in Coal Mining:

The Short Course in Coal Mining offered by the department of mining and industrial extension gives an opportunity to operators, officials, and employees of mining companies to obtain instruction pertaining to their work. The subjects covered in the short course are: explosives, methods of working, timbering, mine gases, mine ventilation, hoisting, haulage, mine drainage, safety lamps, mine management, electricity in mines, mine fires and explosions, safety organization and administration, mining arithmetic, and elementary drawing.

Special attention is given to students desirous of preparing themselves for the teaching of mining classes under the Smith-Hughes Act.

At the close of the short course the West Virginia Department of Mines conducts an examination for mine foremen and fire bosses.

Tuition is free. It is believed that $60.00 should cover all necessary expenses for the six weeks, excluding traveling expenses.

The twenty-fifth annual session of the Short Course in Coal Mining will begin on Monday, June 7, and continue until Saturday, July 17, 1937. For further information write for the special announcement of the Short Course in Coal Mining.

Vocational Courses Offered in Extension:

Courses in foreman training and other special courses for those in industry are offered in centers where there is sufficient interest. The services of the Department are available for any city or town desiring to establish night schools and part-time schools.

Extension courses in mining are offered under the direction of the University at various mining towns throughout the State. The instruction in these courses is carried on by University extension instructors who visit each center every week. At the present time the work is planned on a four-year basis to cover the following courses: mine gases, safety lamps, ventilation, timbering, explosives, haulage, prevention of mine accidents, mine waste, drainage and pumping, mining methods, foremanship, electricity, mine fires and explosions, and coal geology. In each of these unit courses, particular emphasis is placed on safety features, state mining laws, and application of arithmetic to mining problems.

An intensive course for the training of mine foremen in cooperation with the Federal Board of Vocational Education is also offered in certain sections of the state.

An annual conference on water purification is held each year in cooperation with the State Department of Health. A number of out of state engineers are invited to present papers at the conference. The State Department of Health and College of Engineering cooperate in the program. The papers presented at this conference are printed in bulletin form and the work is followed up by personal visits in the field. The conference is usually held at Charleston or Morgantown. These conferences are held under the supervision of H. W. Speiden.

Conferences for men interested in the metering of electrical energy will be arranged to suit the convenience of those interested. Each group should consist of from eight to 12 men who have at least a working knowledge of elementary algebra and trigonometry. Conferences may be arranged by writing to Professor A. A. Hall, and are usually expected to be for 10 day periods devoted to current practices as well as to the basic theory of electrical meters, their connections and testing.

Conferences for men engaged in the application of electrical energy to the mining industry will be arranged for at certain times, in connection with the department of electrical engineering, when such work does not conflict with the regular University classes. Such groups should consist of not less than ten or more than fifteen men who should have at least a working knowledge of arithmetic and elementary electrical laws. Conferences may be arranged for by writing to Mr. D. L. McElroy, Assistant Director of Mining Extension, and are expected to be from three to five day periods of class study and laboratory work in the department of electrical engineering.

A road school is offered in cooperation with the State Road Commission of West Virginia. This course is open to engineers interested in highway construction. The subjects of road construction and road maintenance are treated in a practical manner, most of the teaching work being done by engineers in the employ of the commission. This school is conducted under the supervision of Professor W. S. Downs.

An annual training school for firemen is conducted each year in cooperation with the State Fire Marshal, the National Board of Fire Underwriters, and the West Virginia Inspection Bureau. This school is conducted under the supervision of D. L. McElroy, Director of Fire Service Extension Schools.

THE GRADUATE SCHOOL

Provision for the establishment of the Graduate School was made by order of the Board of Governors of West Virginia University in January, 1930. The functions of the Graduate School as instituted are twofold: (1) to pursue research and investigations with particular reference to the problems of the State of West Virginia, and (2) to prepare and recommend to the Board of Governors candidates for the graduate degrees of Master of Science, Master of Science in the various engineering branches, Master of Arts, and Doctor of Philosophy.

The Graduate Faculty shall be composed of all faculty members who are teaching in the current academic year, or who taught in the preceding

academic year, a course in the 300 group or a course in the 200 group in which fifty percent of the students are/were graduate students, or who are supervising, or supervised in the preceding academic year, the preparation of a thesis or theses by one or more candidates for the Master's degree or for the Doctor's degree.

THE DIVISION OF MILITARY SCIENCE AND TACTICS

Requirements:

West Virginia University, being one of the beneficiaries of the Act of Congress of 1862, has made instruction in military science and tactics compulsory for all freshmen and sophomore men not specifically exempt. Military training was established in 1867 at the University's inception.

The following is an excerpt from chapter eighteen, article eleven, of the Official Code of West Virginia, 1931:

Section 6. MILITARY TRAINING. Male students of suitable age in the University shall be required, under such regulations as the Board of Governors shall prescribe, to enroll in the department of military science. Said students shall serve for the time required by said regulations and shall be entitled to such special privileges and immunities as the Board of Governors may determine. The Board of Governors shall have authority to accept appropriations, material, and other benefits from the Federal Government on account of any Federal law providing for aid to the West Virginia University for giving instruction in military science and to co-operate as far as practicable with the Federal Government for such purpose.

The following orders have been adopted by the University Board of Governors:

(1) Ordered that all male students, with the exceptions hereinafter named, shall enroll themselves in the Division of Military Science and Tactics and follow diligently the course of instruction provided therein. Proficiency in this course shall be required for graduation.

(2) Practical and theoretical instruction shall be given three hours per week throughout the school year to all students except those in advanced classes who will be required to take five hours per week. A credit of 1 hour shall be given for each semester's work satisfactorily completed. Such credit shall be included in the computation of the student's standing at the end of each semester.

(3) Every student enrolled in the Division of Military Science and Tactics, shall, at the time of his enrollment, deposit with the Financial Secretary of the University $10 to cover any loss or damage of government property occasioned through fault or neglect on the part of the Cadet. This sum less such deductions as are made for lost property or other reasons will be refunded to the Cadet at the expiration of the school term upon presentation to the Financial Secretary of certificate of property clearance.

(4) The following classes of students shall not be required to enroll themselves in the Division of Military Science and Tactics, but may elect to do so:

(i) Students who are citizens of a foreign country and who do not intend to become citizens of the United States.

(ii) All students who at the date of entrance into the University are more than 23 years of age, and former students over 23 years of age who re-enter the University after an absence of three years.

(iii) All graduate students.

(iv) All students whose studies are entirely in the School of Music.

(v) All students who are taking only the short course, or the special winter course, or extension work in the University.

(vi) All students who at the time of matriculation have completed not less than 58 hours of work, and all who have credit for 4 hours of military science or 1 unit of entrance credit in military from a recognized military academy. Those having one, two, or three hours' credit of military science will be exempt from a like number of semesters. Similarly, each Citizens' Military Training Camp successfully completed may be used for an exemption from one semester. In the latter case, however, the student will never be eligible to enroll in the Advanced Course (third and fourth yars).

(vii) All students who are physically unable to perform military duty.

(5) Exemptions for cases (i) to (vi) will be determined by the adviser from the student's record.

(6) A board, to be known as the Military and Gymnasium Board, shall be composed of the Commandant of Cadets, the director of physical training, and a surgeon of the Corps of Cadets, designated by the President. The Board shall act upon claims for exemption from military services under case (vii).

(7) Applicants for exemption on the ground of physical disability shall be carefully examined by a surgeon of the Corps.

(8) Students exempt under case (vii) shall, upon recommendation of the Military and Gymnasium Board be required to register for such physical training as they can take until they have earned a credit equal to that given for the prescribed military work.

(9) In none of the preceding cases shall the student absent himself until his application has been acted upon.

(10) It shall be the duty of the Commandant of Cadets to notify the Registrar and student's adviser whether the Military and Gymnasium Board exempts a student or recommends that he be required to register for other work in place of military drill.

(11) Whenever the cause for exemption shall no longer exist, it shall be the duty of the student to present himself for drill at the next drill period.

(12) Students may appeal from the decision of the Commandant of Cadets of the Military and Gymnasium Board, in which case the appeal shall be decided by the Council of Administration.

Organization:

The Division is in charge of and instruction is directed by a United States Army field officer, detailed by the War Department, as Commandant of Cadets.

His staff is composed of five line officers and three non-commissioned officers —all United States Army personnel; one band leader and assistant; and eight student assistants, members of the Officers' Reserve Corps.

The Corps of Cadets is organized as a regiment of three battalions—six companies of infantry, two companies of engineers, and a band. Students in the College of Engineering and Mechanic Arts are enrolled in the engineering unit. All others are enrolled in the infantry unit.

Armory:

The Armory, completed in 1902, is a large story-and-a-half brick structure providing a drill hall 60 by 120 feet for use of the Cadets during inclement weather. The building is the headquarters of the Corps of Cadets and all of their equipment is housed therein. The Commandant of Cadets and his aides have their offices on the first floor of the building. The Cadet Band practices in the building, and most of the general University social functions are held there.

Instruction in Military Science:

The curriculum in military science and tactics embraces four years of work. Three hours a week are required for the first two years. Five hours a week for the last two years are optional. Those electing the last two years are required to attend one summer camp of six weeks, for which all expenses are paid.

One hour of credit is given for each course satisfactorily completed.

Inspection of the Corps of Cadets is made, once a year, by the Commanding General, Fifth Corps Area, or by a board of officers appointed by him. Other inspections are made at varying periods by officers of the Fifth Corps Area.

Rewards:

Graduates of the Division of Military Science and Tactics are eligible, within five years after graduation, to commissions as first lieutenants in the National Guard of the State, without examination. They are also eligible to commissions as second lieutenants in the Officers' Reserve Corps, and are exempt from examinations in subjects completed in this Division for promotion to first lieutenant in the Officers' Reserve Corps.

The names of the most distinguished Cadets of the graduating class are sent to the Adjutant General of the Army and to the Adjutant General of the State.

Special rewards for excellence in military science and tactics are offered annually. For a list of these awards, see pages 79-81.

Allowances:

A uniform for each Cadet is furnished by the Federal government. Cadets are required to wear this uniform at drill and inspection. Cadets electing the last two years are given an allowance for uniforms.

Band instruments are furnished by the Federal and State governments, which also provide expert instruction in band music. After completing two years in the Band, qualified Cadets registering for further instruction and completing the year receive allowances approximating $65.00.

THE DIVISION OF PHYSICAL EDUCATION

History and Purpose:

The Division of Physical Education was established on the Campus in 1928. It serves many purposes chief among which are the following:

Organizes, supervises, and develops the recreation program of the student group.

Prepares teachers of health and physical education for the high schools and colleges of the state.

Provides leadership and facilities for a regular program of physical activity which will meet the individual needs, capacities, and interests of every student group.

Gives professional training for those students whose interests lie in physical education or recreation in municipal departments, adult health and education, industrial centers, and institutions of higher learning.

In cooperation with the College of Education the Division of Physical Education maintains a Bureau of Recommendation or Teachers' Placement Bureau[1] which makes available to school officials the credentials of students or alumni who are candidates for positions.

Organization:

For purposes of administration and instruction the Division of Physical Education is organized into the following departments:

I. Service program for men.
II. Service program for women.
III. Intramural athletics.
IV. Curriculum for Majors.

The first three departments of the Division serve the student body of all departments of the University by providing a systematic program of physical education and recreation. See pages 71 to 73 for a more detailed description of the intramural activities.

The department of curriculum for majors provides professional training for all men and women who are desirous of becoming teachers of physical education and coaches in high schools and colleges, or directors or recreation in municipal systems. Those who complete the course will also have satisfied the prerequisites for entrance into departments in universities giving training in therapeutics. Anyone completing the course of study outlined by the Division and authorized by the University and receiving an honor point average of one honor point for each credit hour taken in the University qualifies for the degree of Bachelor of Science in Physical Education (B. S. Phys. Ed.).[2]

Facilities:

The Men's Field House, completed in 1928, which is located on the lower Campus near the Monongahela River, provides facilities (including lockers and showers) for physical education classes, intramural athletics, and inter-

[1]See page 74.
[2]See pages 236 to 244.

collegiate athletics, and contains the administrative offices of the Division of Physical Education. Immediately adjacent are four tennis courts, eight horseshoe pitching courts, and four archery ranges.

Elizabeth Moore Hall for Women. This building located on the upper Campus was completed in 1928 and provides social, recreational, and physical education facilities for women students. It also houses the offices of the Department of Physical Education for Women. All the women's organizations on the Campus use the building as a meeting place. Its appointments and facilities make it ideal for the holding of receptions and social events. The gymnasium which is well equipped; the locker and showers and the swimming pool provide excellent recreation and physical education facilities.

Service Program for Men:

The courses offered in this department are designed to meet the needs of the men of the University for an organized program of recreation during their period of residence. The purpose of the department is to develop recreational skills which can be enjoyed while in college and invested in leisure time after college, establish habits of regular participation and develop favorable attitudes toward wholesome play.

Students completing Physical Education 1 and 2 meet the University requirements of two hours' credit in physical education as a prerequisite for graduation of all students subject to this requirement.

During Freshmen Week all freshmen report at the Men's Field House for assignment of lockers and baskets and for appointment for physical and medical examination and physical achievement tests. These examinations and tests are the guide in the selection of a program of physical education for the individual student. See *Bulletin* of the department of service program for men.

Service Program for Women:

The courses offered in this department are designed to meet the needs of the women of the University for an organized program of recreation during their period of residence in the University. Four semester hours of three periods each week are required for graduation of all women students unless they enter with 58 hours of advanced credit. The offerings include both indoor and outdoor activities.

Each woman student subject to the foregoing requirements is required to pass a minimum test in swimming, play skillfully one highly organized sport and one individual sport, meet a definite standard of rhythm, and gain a knowledge of hygiene in relation to wholesome living.

THE SUMMER SESSION

The thirty-ninth summer session of the University will be held from June 9 to August 26, 1937. The session will be made up of two terms—the first of six weeks and the second of five weeks. The first term will begin Wednesday, June 9, and end Wednesday, July 21. The second term will begin Thursday, July 22, and end Thursday, August 26. Classes will be held on Saturdays, during the second term.

The requirements for admission and the character of the work offered are the same for the summer session as for the regular year.

Credit may be obtained towards the Bachelor's and Master's degree in most of the departments and schools. Offerings are varied from summer to summer so that students may complete the work for the Master's degree by attending summer sessions only.

Courses for Teachers:

Many of the students enrolled in the summer session are teachers, school executives, and others interested in higher education. To meet the needs of these groups a wide range of both professional and subject-matter courses is offered for undergraduate and graduate students. Some of these courses are not offered in the regular year.

The University maintains a laboratory demonstration high school and an elementary school for practice supervision at the graduate level, under the direction of the College of Education. The demonstration schools afford Summer Session students opportunities for observation, student-teaching, and practice supervision.

Field Courses:

Field corses in botany and zoology will be offered during the first term with six hours' credit in each for the six weeks. Students taking these courses will spend the entire time in the field, camping and traveling by automobile. Dr. P. D. Strausbaugh, professor of botany, will be in charge of the work in botany; and Dr. L. H. Taylor, associate professor of zoology, will be in charge of the work in zoology. Students interested in these courses should communicate with the instructors as early as possible.

LIVING ACCOMMODATIONS

The University maintains two large dormitories, one for men and one for women. For information as to accommodations and rates, address the office of the Director of Residence Halls and Commons, West Virginia University, Morgantown. Cost of room and board in the dormitory for men ranges from $267 to $315 per year; in the dormitory for women from $287 to $315 per year.

No student will be permitted to live in other quarters until after the Men's Dormitory and Woman's Hall with its two wings are fully occupied.

In the assignment of rooms in these buildings all freshmen shall be required to take rooms therein before members of any other classes shall be assigned rooms therein, no freshmen being allowed to live outside the dormitories if there is room in them.

In enforcing the above rules the following exceptions shall be made:

(1) Where the parents or legal guardians of the student reside in Morgantown or within commuting distance of the University, these rules shall not apply.

(2) Where the home of the student is within such distance that it is entirely practicable for him to live in his home and reach the University by car or otherwise for all his classes, these rules shall not apply.

(3) Where students above the rank of freshmen reside in approved sorority or fraternity houses under the supervision of the Dean of Men and Dean of Women, these rules shall not apply.

(4) Where conditions of employment (such as firemen in various buildings and homes, employment on dairy and experimental farms, etc.) require residence on the premises, these rules shall not apply.

The University reserves the right to assign rooms in the dormitories to any student other than freshmen after August 20 of each year.

Board and lodging are available also in private dwellings in Morgantown at about the same rates as obtain in the dormitories. For further information concerning houses on the approved list men should address the office of H. E. Stone, West Virginia University, Morgantown. Women should communicate with the office of the Dean of Women, Morgantown.

Cafeteria:

For the accommodation of University students, members of the faculty, and administrative staffs, the University maintains a well-equipped and well-managed cafeteria. The purpose is to furnish wholesome and substantial meals to its University patrons at a reasonable cost and without profit to the University. The cafeteria is located between Mechanical Hall and the Administration Building. Lunch only is served on weekdays, and dinner only on Sundays. The supper hour is reserved for special groups on the University Campus.

UNIVERSITY BOOK STORE

The University Book Store, located in the basement of the Law Building, is maintained for the convenience of the students. It is open during customary business hours and keeps on hand constantly textbooks, stationery, drafting-room instruments and supplies, etc., which are available to the students at a reasonable price.

ADMISSION TO THE UNIVERSITY

ADMISSION TO THE UNDERGRADUATE COLLEGES AND SCHOOLS

METHODS OF ADMISSION

Students are admitted to the University either by examination or on certificates from an accredited secondary school. In the latter case the certificates must set forth the work of the student in detail. Diplomas or certificates of a general nature are not sufficient.

Candidates for admission to the University must be at least 16 years of age. They must present certificates of good moral character and, if from other colleges or universities, must present letters of honorable dismissal.

Candidates for admission who do not present entrance certificates, or who come from other institutions of learning without letters of honorable dismissal, may at the discretion of the Committee on Entrance be allowed to register provisionally. In every such case the Registrar will make immediate inquiry of the institution from which the applicant comes, and if satisfactory certificates of credit and good standing cannot be obtained, the registration

will be cancelled and the fees paid by the applicant will be returned. A provisional registration will not ordinarily be continued for a longer period than one week.

ENTRANCE UNIT DEFINED

The requirements for admission to the various colleges of the University are stated in terms of units.

A unit in any subject represents the amount of work that may be done in a standard high school in a year of 36 weeks, with five recitation periods per week, of not less than 40 minutes each. In courses where laboratory work is required, from two to three hours of laboratory work is considered the equivalent of one hour of recitation according to the amount of outside preparation required in connection with such work.

Graduates of accredited schools[1] receive credit for the work certified, with the understanding, however, that no student may enter any college of the University until he has credit for 15 units, i. e., the work of a standard four-year high school course.

CERTIFICATION OF ENTRANCE UNITS

Entrance units should be certified on the blank form prescribed by the University or on a similar form, so that credit values may be readily computed. These certificates should be sent to the Registrar at least two weeks before the applicant presents himself for matriculation. Failure to do this may result in vexatious delay in registration and may render the student liable to the payment of the $2 late registration fee. After the certificate has been considered by the Committee on Entrance and the credits recorded, it becomes the property of the University and is permanently filed in the Registrar's office.

PRESCRIBED AND ELECTIVE UNITS

A. Fifteen units of high school work are required for entrance to the University. Those who are going into the College of Education must, if they present the minimum of 15 units, make up an additional unit during the first or second year, in order to comply with the teacher training requirements of the State Board of Education.

B. The following groups are required:

(1) Four units in English[2]
(2) Three units in a second subject
(3) Two units in each of two other subjects

C. The work indicated in "A" must include: For admission to all colleges and schools, 2 units in mathematics—1 unit in algebra and 1 unit in plane geometry. For admission to the College of Engineering, 1½ units in algebra, 1 unit in plane geometry, and ½ unit in solid geometry.[3] For ad-

[1]In accrediting West Virginia secondary schools the University follows the classification made by the State Supervisor of High Schools.
[2]A student may enter with only 3 units in English, but in that case he must take 6 hours of college English as elective above the minimum requirement for the degree for which he is a candidate. For this additional work he will receive college credit.
[3]Students may enter with only one unit of algebra, or without solid geometry, but they will be irregular in their schedules.

mission to the School of Medicine, 2 units in a foreign language (Latin preferred). For admission to the College of Pharmacy, one unit in history and one unit in science.

D. Work in the following subjects not to exceed the number of units placed after each subject will be accepted:

Subject	*Units*
English	4
Foreign languages[4]	
Latin	4
Greek	3
French	3
German	3
Spanish	3
Italian	3
Education	2
Mathematics	
Algebra	2
Plane geometry	1
Solid geometry	½
Trigonometry	½
History and Economics[5]	
History	3
Civics	1
Economics	1
Sociology	1
Drawing	
Free-hand drawing	1
Mechanical drawing	1
Music (applied)	2
Science[6]	
Physics	1
Chemistry	1
Biology[7]	1
Botany[7]	1
Zoology[7]	1
Geology	1
General science	1
Physical geography	1
Physiology	½
Commercial geography	½
Commercial law	½
Vocational subjects (not to exceed 4 units)	
Agriculture	3
Household arts	3
Manual training	3
Bookkeeping, or bookkeeping and commercial arithmetic	2
Commercial arithmetic (alone)	½
Shorthand	1
Typewriting	1
Hygiene and sanitation	1
Physical education	1

SPECIAL REQUIREMENTS

The College of Law:

The following students will be admitted:

1. Graduates of approved colleges.

2. Students who have completed at least three years of work of collegiate grade at an institution of approved standing. If such work is taken at West Virginia University, ninety-six hours of credit must be presented. Students from any institution other than West Virginia University must have credit for three-fourths of the number of hours required for graduation by such institution, but in no case less than ninety hours. Except when the applicant has a degree from an approved college, only those credits may be counted for admission to the College of Law for which West Virginia University would give

[4]No less than 2 units of one foreign language will be accepted for entrance unless supplemented by further work in college in the same language to complete a minimum equivalent to 2 units of entrance. Six hours of college work are regarded as equivalent to 1 unit in a foreign language.

[5]A group of 3 units may be formed by combining 2 units of history with 1 unit of civics, economics, or sociology, or with ½ unit each of any two of these subjects.

[6]A group of 2 or 3 units in science may be made by combining 1 unit each of any of the following: physics, chemistry, botany, biology, zoology, geology, general science.

[7]If a student presents either botany or zoology for entrance he may not have credit for more than ½ unit of biology; if he presents both botany and zoology, no credit in biology will be allowed.

credit toward a degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Science in Engineering. Work taken at West Virginia University must carry a number of honor points equal to the number of hours of credit.

If a student needs no more than four hours or no more than four honor points, or no more than four hours and four honor points, in order to meet these requirements, the Scholarship Committee may, in a meritorious case, admit such student. But until these requirements have been met, law-school credit is withheld and the student is not eligible to take second-year work. A student may not make up such hours or honor points while he is carrying work in a regular session of the College of Law.

Every applicant for admission must present to the secretary of the school, prior to registration, a complete transcript of his record in each institution which he has attended after the completion of his secondary education.

No applicant will be admitted who previously shall have attended another law school and who shall be ineligible to return to that school in good standing.

The College of Education:

The requirements for admission to the College of Education shall be the completion of (a) 16 units of preparatory work and (b) 58 hours of approved college work, with an average of at least 1 honor point per credit hour. Candidates for the bachelor's degree in Education register for their first two years of work in the College of Arts and Sciences. Freshmen and sophomores who expect to enter the College of Education will indicate their intention when they register. Their studies will be directed by Professor Elizabeth Stalnaker, adviser for pre-Education students. Such students should so order their courses of study as to satisfy requirements for junior standing and for the certification of teachers.

The School of Medicine:

In addition to the high-school requirements the applicant for admission to the School of Medicine must have credit for at least three years of work in a college of recognized standing. This must include 100 hours of credit, no more than 6 hours of which may be in military science or physical education.

This 100 hours of credit must include the following subjects and hours: English composition, 6 hours; physics, 8 hours; biological sciences, 12 hours (mainly zoology, and should include comparative anatomy); chemistry, 20 hours, of which 6 hours must be organic chemistry; psychology, 3 hours; a modern foreign language, 12 hours, German or French preferred.

The 12-hour requirement in modern foreign language must be met in full in addition to the high-school language requirements. The 12 hours of modern foreign language must be taken in one language, except when the student has had two units of modern foreign language in high school; then he may take either (1) 12 hours of the same language, or (2) six hours of the same language and six hours of another, or (3) 12 hours of another foreign language.

Scholarship: Since only a limited number of students can be admitted, the selection is made on a basis of scholarship. All applicants must have

taken the aptitude test required by the American Medical Association, the rating in which is considered in making selections.

Further details concerning entrance requirements to the School of Medicine may be obtained by writing to the Dean of the School of Medicine or the Registrar of the University. A full statement concerning suggested pre-medical courses is to be found on page 113 of this Catalogue.

The School of Music:

Students who meet University entrance requirements are admitted to the School of Music either by examination or on certificate from an accredited secondary school. In case of the latter, the certificate must set forth the work of the student in detail. Students may enter the applied music courses in the School of Music any time during the semester without credit. An examination will be given them to determine what work they are prepared to do. It is to their advantage, however, to enter at the beginning of the semester. Students will not be permitted to register for any courses in music for credit toward any degree (A. B. or B. M.), without passing an examination in solfeggio, or demonstrating to the satisfaction of the head of the department a fairly quick sense of rhythm and tune and the ability to read music of moderate difficulty. All students will be examined at least twice a year, in January and May, to determine the progress made.

CONDITIONAL ADMISSION

Students who have credit for 15 units of secondary school work but who can not meet the specific requirements (see B and C above) of the college they desire to enter may register as conditional freshmen in that college. Such students must make up all deficiencies before they can be classified as sophomores.

SPECIAL STUDENTS

Persons who do not desire to become candidates for a degree may, by permission of the Committee on Entrance and of the faculty or dean of the college which they desire to enter, be admitted as special students, subject to the following provisions:

1. Special students must as a rule be 21 years of age.

2. Special students must satisfy at least 9 units of the requirements for admission, including 2 units of English.

3. Every application for admission as a special student must be presented in writing to the Committee on Entrance and must set forth fully the applicant's reason, together with a detailed statement of the studies he desires to pursue.

4. Special students are subjected in all respects to the usual rules relating to registration and scholarship. They may be assigned to classes for which they apply, it being understood, however, that admission to any class rests entirely with the instructor in charge, and further, that admission to any class when so granted does not necessarily imply credit for prerequisites.

5. In the School of Mines, special provisions are made for those taking strictly vocational courses.

6. In the College of Law, students with less than the academic credit required of candidates for the degree of Bachelor of Laws will be admitted as special students only if:

(a) they have credit for no less than two years of work of collegiate grade in an institution of approved standing;

(b) they are at least twenty-three years of age;

(c) some good reason, acceptable to the Scholarship Committee, for thinking that their experience and training have specially equipped them to engage successfully in the study of law, despite the lack of the required college credits; and

(d) the number of such special students admitted each year shall not exceed ten per cent of the average number of students admitted by the College of Law as beginning regular law students during the two preceding years.

ADVANCED STANDING

Application for advanced standing on account of work of college grade done before entrance to the University should be made to the Committee on Entrance not later than two weeks after the applicant's matriculation.

If no certificates are offered or if those offered are considered by the Committee on Entrance to be irregular or insufficient, the Committee will arrange for an examination of the applicant. In this case the dean of the proper college will issue examination cards on which after examination the head of each department will report to the Committee on Entrance the numbers, names, and credit values of the courses, if any, for which the applicant is entitled to credit.

The College of Law:

Applicants for admission to advanced standing must satisfy the ordinary requirements for admission to the first-year class, must have successfully pursued the study of law in a school which is a member of the Association of American Law Schools, and must have received credit for courses equivalent to those required of students in the College of Law. The extent of credit allowed for work done elsewhere is determined by the Scholarship Committee.

Any applicant for advanced standing may also, in the discretion of the faculty, be required to pass examinations in any or all courses presented for credit.

The School of Music:

Advanced standing in applied music is given only by examination. In piano, persons desiring such advanced standing should enroll in piano at the beginning of the semester and after they have become thoroughly familiar with the requirements for each semester's work, they may take a special examination in which they will prove their ability to meet the requirements as outlined.

The College of Pharmacy:

After January 1, 1938, no student shall be permitted to complete the course in pharmacy in less than three collegiate years in a college of Pharmacy, regardless of the amount of credit offered for advanced standing. This is in accordance with the By-Laws of the American Association of Colleges of Pharmacy.

ADMISSION TO THE GRADUATE SCHOOL

Applicants holding bachelors' degrees from West Virginia University or from other institutions within the State approved by the State Board of Education and authorized to confer such degrees, or from institutions without the State standardized by membership in one of the associations of colleges and secondary schools, will be admitted to the Graduate School by making formal application to the Chairman of the Graduate Council and presenting an official transcript of the credits upon which their bachelors' degrees are based. Graduates of non-approved institutions may be admitted provisionally with the understanding that any deficiencies in their undergraduate training will be removed promptly.

Application for admission to the Graduate School should be made either in person or by letter some weeks prior to the opening of the semester for which registration is desired. Blank forms may be obtained from the Chairman of the Graduate Council. The application must be in the hands of the Council at the time the student presents himself for registration for graduate courses. If the student contemplates entering upon candidacy for an advanced degree he should announce in his application his choice of a major field of study. Then he will be referred to the head of the department in which he desires to do his major study, who will assign him to an adviser.

Eligible students who wish to further their education without reference to a higher degree will be admitted to the Graduate School provided they elect graduate courses for which they can satisfy the prerequisites.

REGISTRATION

Persons who are not registered as students in the University and who are not members of its administrative or teaching staffs shall not be admitted to regular attendance in University classes.

Time and Place of Registration:

All students are expected to register on the days set apart for registration at the beginning of each semester or term of the University. Students in the College of Arts and Sciences, the College of Education, the College of Agriculture, the College of Pharmacy, the School of Music, and the Division of Physical Education register in the Field House on Beechurst Avenue. Students in the College of Engineering register in Mechanical Hall; students in the College of Law register in the College of Law building; and students in the School of Medicine register in the School of Medicine building.

Registration for the first semester, 1937-38, will take place on Tuesday and Wednesday, September 14 and 15.

Immediately upon completion of their registration all students are expected to pay their fees at the office of the Financial Secretary, Administration Building.

Freshman Week:

Freshman Week activities were inaugurated at the University in September, 1929. The days set apart for these events in 1937 are September 12, 13, 14, and 15. Attendance at these exercises is required of every entering freshman. A program of lectures, directions to entering students, exercises, and recreation is arranged to enable freshmen to adjust themselves the more easily to the environment of University life. Every freshman should be on the campus and report at convocation in Commencement Hall at three o'clock, Sunday afternoon, September 12, 1937.

Medical Examination:

During registration week all male freshmen will report at the Field House for assignment of lockers and baskets, for appointment for physical and medical examinations, and for physical achievement tests.

Freshmen women will report during registration week at Elizabeth Moore Hall for similar examination and tests.

These examinations and tests will be the guide in the selection of a proper program of physical education for individual students.

College Credit Defined:

A college credit or semester-hour represents the amount of work done in one semester (18 weeks), in one recitation hour with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hours.

Numbering of Courses:

Courses offered in the various colleges and schools of the University are numbered so as to indicate the rank (freshman, sophomore, junior, senior, or graduate) of the students for whom they are intended. See page 87.

Adviser:

The college in which a student is enrolled shall have jurisdiction over the course of study of that student. Each student, upon entering the University, is assigned to an adviser in his college who approves his program of studies and assists him generally in his registration. Changes in registration must always have the approval of the adviser.

Maximum and Minimum Work:

The maximum and minimum number of hours per semester as well as the maximum number of hours per year for which a student may register during the regular session of the University are as follows:

	Minimum Hours per Semester	*Maximum Hours per Semester*	*Maximum Hours per Year*
Agriculture	14	20	....
Arts and Sciences	14	18	34
Education	....	18	35
Engineering and Mechanic Arts	14	20	....
Home Economics	14	18	34
Law	13	16	....
Medicine	17	20	....
Mines, School of	14	20	....
Music	14	18	35
Pharmacy	14	20	....
Physical Education	14	20	....

A student may carry courses not in excess of 6 hours credit[1] each term of the summer session, but any student who, during the last semester or full summer session in residence, has earned 2½ honor points (Arts and Sciences standard) for each hour of registration may petition the Committee on Scholarship of the college concerned to take work not in excess of 8 hours. However, only 6 hours of credit shall be allowed unless the student shall maintain a general standing entitling him to 2½ honor points for each hour of registration.

A student desiring to do irregular work, more or less than the prescribed number of hours in any college, must obtain permission from the Committee on Scholarship in his college. This permission is not valid until it has been reported to the Registrar for record.

Late Registration:

No student will be permitted to register in the University after the eighteenth day of a semester or the ninth day of either term of the summer session, without the special permission of the dean of the college which he proposes to enter. No student registering late will be permitted to enroll for more hours of work than the number of weeks in actual attendance without the permission of the Committee on Scholarship of the college concerned.

Substitution for Required Courses:

A student who desires to substitute another course in place of any course prescribed in his curriculum or required for the degree toward which he is working, must obtain permission for such substitution from the Committee on Scholarship in his college, but there can be no substitution from group to group.

[1]Five hours in the College of Law.

Visitors:

Students who are registered in the University may be permitted to attend classes as visitors, provided they shall have obtained the written permission of their advisers and of the instructors in the classes they desire to visit. Members of the administrative or teaching staffs, or other regular employees of the University, may be permitted to attend classes as visitors, provided they shall have obtained the written permission of the heads of their departments and of the instructors in the classes which they desire to visit.

No record shall be kept of the work and attendance of persons admitted to classes as visitors and no credit shall be given for their work in such classes.

Persons eligible to attend classes in the University as visitors may obtain the proper permission blanks from the Registrar.

Withdrawal from the University:

A student who desires to withdraw from the University must apply to the Registrar for permission. When the withdrawal permit has been obtained it must be presented by the student to his adviser for his approval and signature. It must then be filed by the student in the Registrar's office. See page 60 for provisions regarding refunds.

Students who withdraw from the University without permission will receive at the end of the semester a grade of "FIW" (failure because of irregular withdrawal) in each of the subjects for which they are registered and will be indefinitely suspended from the University.

Students who desire to drop part of their work may withdraw from classes in which they are enrolled with a grade of *W* at any time prior to the end of the second week following the date set for mid-semester reports. Withdrawal permits must be approved by the adviser and filed with the Registrar. If such withdrawal reduces the student's hours below the required minimum, the permit must be approved by the Scholarship Committee. Withdrawals after the above date will be permitted only in exceptional cases and must be approved by the Scholarship Committee of the college in which the student is registered.

Re-entry after Withdrawal:

Students required to withdraw from one college of the University because of failure in their work and permitted to transfer to another college of the University may not again register in the college in which they were originally registered without the consent of the Scholarship Committee of that college.

Return of Books to the Library:

Students must present a signed statement from the Librarian that they have returned all books and paid all the library fines incurred, before they withdraw. No student will be allowed to graduate before paying all fines and returning all Library books.

UNIVERSITY FEES AND EXPENSES

(Subject to change without notice)

FEES

All fees are due and payable at the Financial Secretary's office on the day of registration.[1] All students pay the following fees:

Semester Fees in the Colleges, Schools, and Divisions

COLLEGE, SCHOOL, OR DIVISION	REGULAR YEAR				SUMMER SESSION				REMARKS
	Full Time[2]		Part Time[4]		Full Time[2]		Part Time[4]		
	Resident[3]	Non-Resident[3]	Resident[3]	Non-Resident[3]	Resident[3]	Non-Resident[3]	Resident[3]	Non-Resident[3]	
Agriculture	$ 39.50*	$114.50*	$ 3.00 per credit hour	$ 8.00 per credit hour	$ 25 or $ 30†	$ 35 or $ 40†	$ 5.00 per credit hour except in Music	$ 7.00 per credit hour except in Music	*Includes Contingent fee ($30); Student Activity fee ($7) and Health Service fee ($2.50). †Either term, lower figure; both terms higher figure.
Arts and Sciences									
Education									
Engineering									
Mines									
Music									
Physical Education									
Pharmacy (See "Special Fees in Pharmacy")	64.50*	139.50*	4.00 per credit hour	12.50 per credit hour					
Law	$ 64.50*	$189.50*	$ 4.00 per credit hour	$ 12.50 per credit hour	No instruction during the summer				*See above
Medicine	$127.00*	$202.00*	$ 8.00 per credit hour	$ 12.50 per credit hour					

[1]Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester or a summer term, shall be dropped from the rolls of the University, and the Registrar shall notify their instructors that their class cards are to be withdrawn.

[2]A full-time student is one who is registered for 10 or more semester-hours of work during each semester of the regular academic year, or for 4 or more semester-hours of work during each term of the summer session. A full-time student during the regular academic year receives a student activity book which entitles him to admission to all out-door athletic events and, by the payment of an additional nominal amount at each event, entitles him to admission to all in-door athletic events held in the Field House. A full-time student during the regular academic year or during the summer session is entitled to free medical consultation and advice from the University physician. A moderate charge is made for room-calls, x-rays, special laboratory tests, drugs furnished by the University Pharmacy, minor operations, treatment of fractures and dislocations, and intravenous treatment.

[3]No person shall be considered eligible to register in the University as a resident student who has not been an actual and legal resident of the state of West Virginia for at least twelve consecutive months next preceding his first registration. Exceptions to the above regulation may be made in the following cases: (1) In the case of a student whose parents have become legal residents and citizens of West Virginia after such student's first registration in the University. (2) In the case of a former student who re-enters the University after an interim of non-attendance and who has become a legal resident of the State of West Virginia, his residence having been established at least twelve months prior to his re-registration.

[4]A part-time student is one who is registered for fewer than 10 semester-hours per semester during the regular academic year; or for fewer than 4 semester-hours per term during the summer session.

SPECIAL FEES

Late registration fee[5]	$ 2.00
Diploma fee[6]	10.00
Student's record fee[7]	1.00
Junior certificate	1.00
Change in registration fee (after 8th day)	1.00
Examination fee for advanced standing	3.00
Fee for examination for entrance credit, per unit	1.00

SPECIAL FEES IN PHARMACY

Regularly enrolled students in the College of Pharmacy are given the privilege of enrolling without additional fees in required Pharmacy courses offered in the School of Medicine.

Students in colleges, schools, and divisions other than the College of Pharmacy and the School of Medicine who register for courses in the College of Pharmacy and the School of Medicine shall be required to pay a fee of $4.00 per credit hour for such courses in addition to the fees charged in the colleges, schools, and divisions in which they are registered.

Regularly enrolled Pre-Medical students in the College of Arts and Sciences are given the privilege of registering for the following courses in the College of Pharmacy without additional charge: Pharmacy 2, Pharmacy 3, Pharmacy 9, Pharmacy 106, and Pharmacy 107.

SCHOOL OF MUSIC FEES

1. Students Registered for Degrees in the School of Music:

In addition to the fees required of all full-time students (see table on page 58), resident and non-resident students registered for degrees in the School of Music pay the following fees each semester:

General	*Public-School Music only*
$35.50	$15.50

2. Special Students Registered in the School of Music:

(a) *Theory Courses*—Special students registered in the School of Music for theory courses in music shall pay $5 per credit hour for these courses.

(b) *Applied Courses*—Special students registered in the School of Music for courses in applied music shall pay tuition fees in each semester as follows: for courses in voice, piano, violin, pipe organ, or band and orchestra instruments—one lesson per week, $35; two lessons, $55. For classes in orchestral instruments the fee is $5 per semester. In ensemble courses the fee in accompanying is $5 per semester; in chamber music, $5 per semester.

(c) *Special Work in Another College or School*—Special students registered in the School of Music who take special work in another college or school of the University shall pay music fees plus the regular rate per credit-hour for the work they are taking in another college or school.

[5]As a reward for prompt registration, this fee is not charged to students who procure class cards during the regular registration days set forth in the calendar on page 5. Students whose work is exclusively in music are excused from payment of the $2 late registration fee.

[6]The diploma fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees or diplomas.

[7]One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

3. STUDENTS REGISTERED IN OTHER SCHOOLS AND COLLEGES:

(a) *Theory Courses*—Students registered in other schools and colleges of the University may enroll for theory courses in the School of Music without paying additional fees.

(b) *Applied Music*—Students in other schools and colleges of the University who enroll for one or more courses in applied music shall pay the regular fees required in the school or college in which they are registered plus the fees paid by special students in the School of Music for the courses for which they are registered in the School of Music.

4. PIANO, PIPE ORGAN, AND ORCHESTRAL INSTRUMENTS FOR PRACTICE:

(a) *Piano for Practice*—one hour a day, $6 per semester; two hours, $10; three hours, $14; four hours, $18.

(b) *Pipe Organ Practice*—one hour a day, $10 per semester.

(c) *Orchestral Instruments*—rental fee, $2.50 per semester.

DEPOSITS

The deposits required are as follows: breakage deposit in chemistry, $5; breakage deposit in pharmacy, $10; military science deposit, $10.

REFUNDING OF FEES

A student who withdraws regularly[1] from the University may arrange for a refund of fees by submitting to the Financial Secretary his original fee receipt bearing an endorsement by the Registrar stating that his withdrawal has been regular together with the unused portion of his Student Activity Book. Fees will be returned in accordance with the following schedule:

	Amount of Refund
During the first and second weeks	All fees less $2.50
During the third and fourth weeks	80 per cent of fees
During the fifth and sixth weeks	60 per cent of fees
During the seventh and eighth weeks	40 per cent of fees
Beginning with the ninth week	No refunds allowed

COST OF A YEAR'S WORK

A student's text-books will cost from $20 to $40 a year, and his registration fees $79 to $129 if a resident; or $229 to $404 if a non-resident. Students in engineering will use drawing instruments costing from $15 to $25. The laboratory breakage deposit fee required ranges from $5 to $10, a part of which is usually returned at the end of the year. In military science a $10 deposit is required to cover military equipment in the custody of the student, practically all of which is returned to the student when he accounts for his equipment. Board and room may be obtained at from $200 to $300 a year. A student's washing will cost from $18 to $24 a year. Traveling expenses, clothing, and other miscellaneous items will depend largely upon the tastes and habits of the individual student. In general, however, it may be said that the legitimate cost of a nine months' term of residence at the University ranges from $450 to $800 a year.

[1]See page 57, under the caption "Withdrawal from the University."

DEGREES

All University degrees are conferred by the Board of Governors upon recommendation of the faculties of the various schools and colleges. Degrees are granted at the close of the term or semester in which the students complete their work.

Candidates must be present in person to receive their degrees unless excused by the deans of their colleges.

SCHOLASTIC STANDING AND HONOR POINTS

Marking System:

The student's scholastic record for a semester is indicated by the following system in use at the University:

A—excellent (given only to students of superior ability and attainment)
B—good (given to those students who are well above the average but who are not in the highest group)
C—fair (average students)
D—poor but passing[2]
E—condition
F—failure
I—incomplete
FIW—failure because of irregular withdrawal
W—all withdrawals prior to the end of the second week following the date set for mid-semester reports
WP—withdrew passing subsequent to the end of the second week following the date set for mid-semester reports
WF—withdrew failing subsequent to the end of the second week following the date set for mid-semester reports

Honor Points:

The quality of a student's work shall be indicated by honor points.

A tabulation, showing the number of honor points, if any, and the grades for which they are given in the various divisions of the University follows:

Grade	A	B+	B	C+	C	D	F
All colleges, schools and divisions except the College of Law[1]	3	....	2	....	1	....	....
College of Law	5	4	3	2	1	....	....

BACCALAUREATE DEGREES

Credits and Honor Points Required:

Less than 6 hours in an ancient or modern language will not be counted toward any University degree, diploma, or certificate unless work in the same language has been offered for entrance.

Six hours of English composition and rhetoric (English 1 and 2) are required of all candidates for the bachelor's degree in all colleges, schools, and divisions.

[1]In the College of Law the sign + after the grades A, B, or C will be used to indicate differences in standing between students receiving the same letter grade. In the Graduate School, no credits are acceptable toward an advanced degree with a rank lower than C.

[2]Students are permitted to re-register in any course for which a grade of D has been received. In such cases the second grade shall supersede the first and be final.

Four hours of military science and tactics are required of all freshmen and sophomore men not specifically exempt.[3]

Two hours of physical education for men, to be taken during the first year in residence, and four hours of physical education for women, to be taken during the first and second years in residence, are required for graduation, except in the case of students entering with advanced standing amounting to 58 semester hours or more, unless previous credit has been allowed.

Each baccalaureate degree is conditioned upon the completion of a specified number of semester hours of credit. For a tabular statement of the number of credit hours required for each degree, see the last column on page 63, under the caption "Classification of Students."

All divisions of the University require minimum standards of scholastic quality. These are expressed in terms of *honor points.* Honor points are computed only on grades earned at West Virginia University (including Potomac State School of West Virginia University) and all courses taken in this institution which are offered towards credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of one honor point per credit hour in order to be eligible for graduation, except in the College of Law which requires 50 honor points. The College of Education, in addition to a general average of 1 honor point per credit hour in all subjects, requires an average of 1 honor point per credit hour in Education.

In order to be eligible for recommendation for any West Virginia high school teaching certificate, every student in West Virginia University who desires any such certificate, and who attains junior standing after May 1, 1933, must have a general honor-point average of 1.0 and also an honor-point average of 1.0 in each teaching field.

In the College of Agriculture, the College of Arts and Sciences, the College of Education, the School of Music, and the Division of Physical Education, students may decrease the total number of credit hours required for graduation by doing work of superior quality. For each 8 honor points in excess of 1 honor point per credit hour, the number of credit hours required for graduation may be diminished by one. This does not, however, excuse students from courses required for the degree.

It is the student's responsibility to keep informed on his honor point standing. This information may be secured at any time from the dean or director of the college or division in which the student is registered.

Requirements as to Residence:

Students who come to the University from other colleges or universities are advised to make the transfer not later than the beginning of their third year and in no case will a student who matriculates in the University later than October 1 in any year be permitted to receive a degree at the next Commencement.

In special cases students who desire to leave the University at the close of their third year to enter another institution with the purpose of taking a combined course leading to two degrees or of preparing for graduate study may, upon application beforehand to the Committee on Scholarship of the

[3]See page 42.

college in which they are registered, be permitted to do the work of the fourth year, or a part thereof, at such other institution and to receive the bachelor's degree from the University upon the presentation of the proper credits.

Except in the College of Law, no student will be granted a bachelor's degree by this University who has not done either a total of 90 hours or the last 30 hours[5] of his work in actual residence at the University.

No student may receive the degree of Bachelor of Laws without at least one year of residence in the University and the successful passing of courses aggregating 28 semester hours in the College of Law, which, except with the permission of the Scholarship Committee, must be the last 28 hours of the student's work.

Classification of Students:

The following table shows the number of semester-hours required for classification as second-year, third-year, and fourth-year students and for graduation, according to the curricula in the several colleges, schools, and divisions. First-year students must satisfy the requirements for admission as set forth on pages 48 to 54, inclusive.

COLLEGE AND DEGREE	Hours Required to Classify As: Second Year Student	Third Year Student	Fourth Year Student	Hours Required for Degree
ARTS AND SCIENCES				
Bachelor of Arts (A. B.)				
Regular	25	58	92	128
Pre-medical	32	66	100	132
Combined (Medicine)[1]	32	66	100	135
Combined (Law)[2]	25	60	96	124
Bachelor of Science (B. S.)				
Combined (Medicine)[3]	32	66	100	177
Combined (Pharmacy and Medicine)[4]	30	70	108	185
AGRICULTURE				
B. S. in Agriculture (B. S. Agr.)	26	64	100	144
B. S. in Home Economics (B. S. H. E.)	25	58	92	128
EDUCATION				
B. S. in Education (B. S. Ed.)		58	94	128
ENGINEERING[5]				
Bachelor of Science (B. S.)	27	60	94	131
B. S. in Chem. Eng'g. (B. S. Ch. E.)	30	70	110	150
B. S. in Civil Eng'g. (B. S. C. E)	30	70	110	150
B. S. in Elec. Eng'g. (B. S. E. E.)	30	70	110	150
B. S. in Mech. Eng'g. (B. S M. E.)	30	70	110	150

[1]Fourth year in School of Medicine.
[2]Fourth year in College of Law.
[3]Third and fourth years in School of Medicine.
[4]Fourth and fifth years in the School of Medicine.
[5]For the degree of Bachelor of Science in Education, at least 10 hours of the residence work must be in Education.

LAW				
Bachelor of Laws (LL. B.)	22	50	.....	81
PHARMACY				
B. S. in Pharmacy (B. S. Phar.)				
Retail Pharmacy	30	70	108	142
Industrial Pharmacy	30	70	108	144
SCHOOL OF MINES[5]				
B. S. in Eng'g. of Mines (B. S. E. M.)	30	70	110	150
SCHOOL OF MUSIC				
Bachelor of Music (B. Mus.)	30	64	102	136
DIVISION OF PHYSICAL EDUCATION				
B. S. in Phys. Ed. (B. S. Phys. Ed.)	28	58	92	130

Work Done Out of Residence:

It is the policy of the University to discourage the taking of regular residence courses *in absentia.* In the case of courses begun at the University and not completed because of illness or for other acceptable reasons however, permission to complete the work *in absentia* under the direction of the regular University instructors giving the courses may be granted by the Committee on Scholarship; but in such case credit should be given only upon a report of a grade of not less than "C" on final examination.

This regulation does not apply to University extension courses.

Adviser:

Each student upon entering the University is assigned to an adviser, whose duty it is to assist the student in his registration, to keep a record of his work, and to report his registration and standing to the Registrar as required. The adviser approves the student's program of studies, sees that all prescribed work is taken in proper sequence, approves the selection of elective courses, and assists the student generally in planning his course of study so that he may proceed systematically and without conflicts. Changes in registration must always have the approval of the adviser. The student will look to his adviser for guidance in all matters pertaining to his work.

GRADUATE DEGREES

Graduate degrees offered by the departments in the University which have been approved for graduate work are as follows

Master of Arts (A. M.)
Master of Science (M. S.)
Master of Science in Chemical Engineering (M. S. Ch. E.)
Master of Science in Civil Engineering (M. S. C. E.)
Master of Science in Electrical Engineering (M. S. E. E.)
Master of Science in Mechanical Engineering (M. S. M. E.)
Master of Science in Engineering of Mines (M. S. E. M.)
Doctor of Philosophy (Ph. D.)

[5]Students matriculating with 58 or more hours of credit may graduate with 148 hours, since physical education is not required of these students.

PROFESSIONAL ENGINEERING DEGREES

The following professional degrees are conferred upon graduates of the College of Engineering and Mechanic Arts of West Virginia University on the basis of practical experience and study *in absentia*, the presentation of a thesis, and an oral final examination.

Chemical Engineer (Ch. E.)
Civil Engineer (C. E.)
Engineer of Mines (E. M.)
Mechanical Engineer (M. E.)
Electrical Engineer (E. E.)

EXAMINATIONS AND REPORTS

COURSES

As a rule all courses extend through one semester only.[1]

EXAMINATIONS

Mid-Semester and Final Examinations. In practically all courses offered in the University, the student receives both a preliminary or mid-semester grade and a final grade. The mid-semester standing of a student is based on the daily recitation grades and a special test given during one or more regular recitation periods. Mid-semester grades are not entered on the Registrar's records. The final grade is based on the class standing for the entire semester and on a written final examination[2] to which a special period of two or three hours is devoted, except that the manner of determining the final grade of seniors and graduate students provisionally approved for graduation at the end of the semester or term is left with the head of the department. Any student not satisfied with his grade, however, has the right to take the examination with his class if he so desires.

Examination Periods. Mid-semester examinations are held during the regular academic year only, and usually during the week of each semester immediately preceding the day of the mid-semester reports as set forth in the University Calendar. Final examinations are held during the last week of each semester of the academic year, and during the last two days of each term of the summer session.

Absence from Examination. Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from examination without permission, the instructor shall count the examination as zero and report the final grade as *F*. If, in the opinion of the instructor, the absence of the student was for satisfactory reason, the fact will be recorded on the student's class ticket, the grade of *I* will be returned, and the student may, upon application to the instructor, take the examination at a later date.

[1]In the College of Law all courses extend either throughout the entire year or through one semester. No credit will be given for less than an entire course except by special order of the Committee on Scholarship. Grades given at the end of the first semester in courses extending throughout the year are merely indicative of the quality of work done by the student to that point and do not give credit for the part of the course so far pursued. Such first semester grade may be considered in determining the final grade.

[2]See 12 percent rule under "Absences" on page 67.

Conditions and Failures:

If the final grade of a student in any course is "F" it is recorded as a "failure," and the student must take the course again if he desires to receive credit for it. If the final grade is "I" it is recorded as "incomplete." If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course it becomes a failure unless special permission to postpone the completion of the work is obtained from the Committee on Scholarship of the college in which the student is registered. A student receiving a grade of "E" may be given a second examination in the subject in which such grade is received, provided he applies for it at the time of his registration. A grade of "E" not removed within the following semester becomes a failure unless special permission to postpone the examination is obtained from the Committee on Scholarship of the college in which the student is registered. If the final grade after a second examination is again "E" it is recorded as a "failure." No grade higher than "C" shall be reported for the removal of a condition. In the College of Law a student who has received a grade of "D" in any course is privileged, but not required, to take the next regular examination in that course in order to raise his grade to one which carries with it honor points.

REPORTS

Mid-semester grades are reported to students' advisers and to deans, but are not recorded in the office of the Registrar.

Final grades are reported by instructors to students' advisers and by them directly to the Registrar's office.

A report of each student's work is made at the close of the semester or summer session either to the student himself or to his parents or guardians.

DISCIPLINE

The rules and regulations which students are required to observe are few, simple, and reasonable; civil and orderly conduct; punctuality and regularity in attendance upon all required exercises; reasonable diligence in the performance of the work prescribed; and abstinence from vices.

Students who do not comply with these requirements will not be allowed to remain in the University.

All matters of discipline are in charge of the President of the University in consultation with the dean or director of the college or head of the division of the University in which the student concerned is enrolled.

ABSENCES

Each instructor shall be responsible for the attendance of students in his classes, and shall report an excessive number of absences to the dean or director of the college in which the student is registered for such action as may be deemed advisable.

Students who must be absent from class for an extended period of time should obtain permission for such absence from the Dean of the College in which they are enrolled.

All women students who wish to be absent from Morgantown while the University is in session must obtain permission in advance from the office of the Dean of Women.

If a student's absence in any course exceed 12 percent of the total number of recitations in the course he is barred from taking the final examination unless special permission to take such examination is given him by the dean or director of the college concerned and by the instructor.

DELINQUENT STUDENTS

The dean or director of each college shall make suitable and effective provisions for handling delinquent students registered in his college, subject to the general regulations.

Probation and Suspension:

Any student who at the end of any semester fails to make a passing grade in courses amounting to at least half of the total number of semester hours for which he is registered at the end of the second week following the date set for mid-semester reports shall, unless restored to probationary standing, be suspended from the University for the succeeding semester, except that a freshman subject to the operation of this rule at the end of one semester in residence shall be placed on probation for the succeeding semester.

If, however, the student is enrolled in the School of Medicine, or if the failure resulted from the abandonment of any class, or from withdrawal from the University without permission, or from absence from examination without reasonable excuse, the suspension becomes indefinite.

If a student suspended by the operation of the above rule re-enters the University and again becomes subject to it, his suspension becomes indefinite.

Any student who fails to make a passing grade in courses amounting to at least half of the total number of semester hours for which he is registered, at the end of the second week following the date set for mid-semester reports, shall be placed on probation for the remainder of the semester.

The dean or director of each college shall make periodic reports of the problems arising from delinquent students to the Council of Administration.

All actions of the Committee on Scholarship and the dean or director of the college that affect the standing of a student shall be reported by the dean to the Registrar.

Duties of Instructors:

Instructors shall report the names of delinquent students to their respective advisers at the beginning of each school month except the month in which a mid-semester examination occurs and at such other times as the occasion may arise.

In the event that a student who has not been previously reported for delinquency fails in a subject, the instructor must report to the student's dean or director the reason for the failure.

No report should be made by an instructor until after a conference with the student. If the delinquency is a minor or temporary one, the instructor may await the result of his conference before reporting. Delinquency reports

should include all failures to make a passing average and unsatisfactory work on the part of those who are capable of doing a higher grade of work.

All reports shall be made on special blanks and a copy of the report should be given to the student.

Duties of Advisers:

All advisers, upon the receipt of the delinquent reports, shall have conferences with the students concerned and shall endeavor to make such recommendations and adjustments as may be within their power.

If the delinquency is due to continued wilful neglect or to failure in one-half of the work for which the student is registered, the adviser shall report the case to the dean of his college, who may, at his discretion, place the student under the jurisdiction of the Committee on Scholarship, and thereafter the adviser shall carry out the orders and instructions imposed by the dean or the Committee.

Duties of the Committee on Scholarship:

The Committee on Scholarship shall have authority to proceed according to its best judgment in regard to delinquent students referred to it for its consideration.

All orders of the Committee shall become effective when approved by the dean of the college.

In the exercise of its authority, the Committee shall not suspend a student during a semester except for wilful neglect and in cases where the student's class grades are so low that further class attendance would be a waste of time. No suspension shall become effective until approved by the dean of the college.

STUDENT MARRIAGES

If any student under the age of 21 years, who has not been previously married, intends to marry within the school year, he or she must obtain the consent of the parents[1] or guardian, before such marriage shall be celebrated, in accordance with the provisions of section 8, chapter 48, revised Official Code of West Virginia, 1931.

In order to insure obedience to both the letter and the spirit of this statute and the policy of the University such student must, not less than one week before the celebration of said marriage, show satisfactory evidence to the office of the Assistant to the President that the consent of the parents or guardian as required by that statute has been obtained.

In the event that such student does not make such showing to the office of the Assistant to the President, whether the marriage be celebrated within or without the State, he or she shall, from the date of the celebration of such marriage, be automatically suspended, and may only be reinstated upon showing satisfactory reason to the Council of Administration why he or she failed to comply with this regulation.

Where both parties to the marriage are students and one has not complied with the above rule, both shall be suspended as provided above.

[1]Or of the parent living, or, if the parents be living separate and apart, of the one to whom was awarded the custody of such person.

STUDENT WELFARE

DIRECTOR OF STUDENT AFFAIRS

The activities of student welfare are under the administration of the Director of Student Affairs. The Director's office is on the second floor of the Administration Building.

CONVOCATION

Convocations are held at such times as the Committee on Convocations and Public Exercises finds appropriate and desirable. Attractive programs are provided consisting of devotional exercises, addresses by distinguished speakers, and musical and other entertainment features of special merit.

DEAN OF WOMEN

All interests of the women students in the University are in charge of a special executive officer of the University, the Dean of Women. She is a member of the Committee on Student Affairs. The Dean's office is on the second floor of Elizabeth Moore Hall.

Social Center for Women:

On the upper Campus, opposite Commencement Hall, is Elizabeth Moore Hall for women, completed in 1928. The building provides for social, recreational, and physical education activities for women students, and was named as a memorial to Mrs. Elizabeth I. Moore. The building is so arranged that facilities for social activities constitute a separate unit.

STUDENT ACTIVITIES

To be eligible to represent the University in public appearances, to hold a staff position on a student publication, to be a candidate for or to hold an office filled by an election conducted by the Student Council, or to hold a commission in the corps of cadets, a student in residence during the academic year 1937-38 must have earned at least 9 semester hours of credit and 9 honor points during his or her last previous semester in residence.

A student in residence during the academic year 1938-39 and thereafter must have earned at least 12 semester hours of credit and 12 honor points during his or her last previous semester in residence in order to be eligible for public appearances and positions as set forth in the next preceding paragraph.

Women's Student Government Association:

All women students of the University are members of the Women's Student Government Association. The purpose of this Association is to regulate all matters pertaining to the student life of its members; to further in every way a spirit of friendliness and unity among the women of the University; to increase their sense of responsibility; and to be a medium for maintaining high scholastic and social standards.

The responsibility for directing the work of the Association rests with the Executive Council which is composed of the following members: a presi-

dent, two vice-presidents, a secretary, a treasurer, and a representative from each class. These officers are elected annually by the Association.

In 1921 the Association was admitted to active membership in the Intercollegiate Association of Student Government for Women Students.

RELIGIOUS FOUNDATIONS AND SOCIETIES

Foundations:

As at most state university centers, various State and national church boards have established at West Virginia University foundations for the religious education and nurture of students. For the promotion of common ends, the foundations are grouped into an organization, with student representatives known as the Council of Religious Agencies. Individual faculty men act as advisers. The churches of Morgantown extend a warm welcome to students of all faiths. The physical plant and equipment of each church is available for social, educational, and recreational activities of students.

NEWMAN HALL, 1481 University avenue, is the center established by the West Virginia diocese of the Roman Catholic Church for students of that and other faiths. The Rev. Robert Weiskircher is the resident chaplain. Newman Hall is a beautiful building of English collegiate architecture, immediately adjacent to the Campus. It is equipped with dormitory, facilities for 20 students and also includes a chapel, dining room, lounge, game room, and library.

TRINITY HOUSE, 247 Willey street, under the direction of the Rev. William Gregg Gehri, rector of Trinity church, is the center for welfare and social activities sponsored by the West Virginia diocese of the Protestant Episcopal Church in its program for students in the University. This Church was the pioneer in establishing a student center at the University.

THE PRESBYTERIAN STUDENT SERVICE PROJECT represents the cooperative efforts of the National Boards of Christian Education and Home Missions of the Presbyterian Church, U. S. A., and the Synod of West Virginia of the Presbyterian Church, U. S., to make the religion of Jesus a vital factor in the experiences of students and in the relationship which these students sustain while in the University; and also, through guided Christian activities in the mine camp communities surrounding Morgantown, to train among educated men and women future Christian statesmen. Under the direction of a representative executive committee, Rev. Alfred Lee Klaer, Dr. Wm. E. Brooks, and Miss Mary Elizabeth Behner carry on the work of the project. Rev. Klaer, 304 Willey street, is the University pastor and director, Dr. Wm. E. Brooks, 316 Allison street, is the minister of the church, and Miss Behner, 403 High street, is in charge of activities and program in the mine camp communities.

WESLEY FOUNDATION, 503 High street, is a center for Methodist Episcopal students. There are three attractive rooms, a kitchenette and an office. The students are organized into a working cabinet and carry forward a religious educational program consisting of worship, study, fellowship, community service, mining camp missions, and other extension activities. Rev. Jas. P. Hutchinson is assigned by the West Virginia Conference of the church as Director and University pastor.

OTHER CHURCHES, while not having special buildings and workers, carry on an important work in ministering to the religious and social needs and welfare of University students of their particular faiths as well as many of still other faiths.

Societies:

YOUNG WOMEN'S CHRISTIAN ASSOCIATION is a voluntary group of women in the University organized for the purpose of promoting and directing widely varied activities for a religious motive.

Through its national and international organization, the Y. W. C. A. joins in fellowship with students throughout the world. Membership in the Campus organization is open to all women students in the University who are in agreement with its purpose. Each year representatives of the Campus "Y" are sent to all intercollegiate conferences at Forest Park and elsewhere. The Y. W. C. A. headquarters are located on the second floor of Elizabeth Moore Hall.

CHURCH ORGANIZATIONS. The following organizations have been established by Morgantown churches for the purpose of providing wholesome social activities for the students: Chi Beta Sigma—Methodist Protestant; Girls' Friendly Society—Protestant Episcopal; Kappa Phi—Methodist Episcopal; Phi Chi Delta—Presbyterian; Theta Epsilon—Baptist.

STUDENT SOCIAL LIFE

The social life of the students in the University is under the general supervision of the Committee on Social Affairs. This Committee has supervision of every social function given by the University or by an organization within it, including fraternities, sororities, and other student societies. Such social functions as balls, dances, picnics, excursions, and receptions are supervised by this Committee. The Committee approves all dance programs, supervises the issuance of invitations for functions of a general University nature, and sees that all social affairs held in the University are properly conducted.

PHYSICAL EDUCATION

Two hours of physical education for men, to be taken during the first year in residence; and four hours of physical education for women, to be taken during the first and second years in residence are required for graduation of students presenting fewer than 58 hours, unless previous credit has been allowed.

Each student who is required to register for physical education is given a complete medical and physical examination at the beginning of the University school year to determine his fitness for active participation in University activities of any description.

INTRAMURAL ATHLETICS

Intramural Athletics for Men:

The Department of Intramural Athletics for Men is organized as one of the departments of the Division of Physical Education. It is the aim of

this department to encourage the entire student body of the University to participate in organized athletic sports and wholesome, active recreation. Competition will be promoted between student groups, faculty groups and individuals. The units which are now the natural groups on the campus, such as class, fraternity, and unorganized or non-fraternity groups, will form the basis for activities in competitive sports and recreation. It is the desire of the department to foster a spirit of fair play and good sportsmanship in all competition.

All students regularly enrolled in any department in the University shall be eligible to enjoy the intramural privileges, except that they must satisfy certain eligibility requirements for the various activities. All students who are members of the Varsity or freshmen squads in a sport, or who have earned a Varsity award (WV) in a sport, shall be ineligible for intramural competition in that particular sport. All students who have won a Varsity award in a sport from another institution of college rank shall be ineligible for intramural competition in that particular sport. Winning a Varsity award in one sport such as basketball will not bar a student from participation in another intramural sport such as baseball. See Handbook of the Department of Intramural Athletics.

All competitions conducted by the Department are under the control of the Administrative Board composed of the Director of Physical Education, Director of Intramural Athletics, Director of the Service Program for Men, Director of Intercollegiate Athletics, Supervisor of Activities, and the senior managers. The coaches of the various Varsity sports are ex-officio members of the Administrative Board and vote on questions of eligibility or protests which concern the particular sport they may coach.

The following activities are conducted during the fall seasons: speedball, cross-country, touch football, volleyball, and handball. Other activities may be promoted during this season when there is sufficient interest on the part of the student and where facilities are available. Leagues will be organized to accommodate classes, fraternities, and non-fraternity or unorganized groups.

The following activities are conducted during the winter season: basketball, indoor track, relays, bowling, and basketball free-throwing.

The following activities are conducted during the spring season: tennis, softball, horseshoes, and outdoor track and field.

Intramural Athletics for Women:

The Women's Athletic Association, together with the Women's Department of the Division of Physical Education, sponsors all the intramural athletic activities for women. It is the aim of these two groups to encourage all women students to participate in organized sports as a recreational activity. Competition takes place between the organized groups on the Campus such as sorority, dormitory, church, independent, and class groups.

All women enrolled in the University are eligible to play in any intramural tournament, provided they satisfy the eligibility requirements which are: (1) All freshman women must play with their dormitory, church, or independent team, and not with the sorority to which they are pledged. (2) Only two physical education majors may play on any one team. Inter-class tournaments in volleyball, basketball, and baseball are held each year for the professional students in physical education.

The following activities are conducted: during the fall season—horseshoes and volleyball; during the winter season—foul-throwing and bowling, swimming, badminton, basketball, and ping-pong; during the spring season—baseball and archery. As the demand for more activities develops, the facilities will be increased and the program broadened.

INTERCOLLEGIATE ATHLETICS

The Department of Intercollegiate Athletics is under the supervision of the Director of Intercollegiate Athletics and the Athletic Board, composed of five members of the faculty, two University alumni, and one student. Football, baseball, basketball, boxing, wrestling, track, cross country, tennis, golf, and rifle teams are organized and trained each season. All intercollegiate athletics are under the control of the Athletic Board (see page 22). Questions of athletic eligibility are determined by the faculty through the Athletic Board.

Mountaineer Field:

On the north border of the lower Campus is located the Stadium, enclosing Mountaineer Field. This monolithic concrete and steel structure was erected in 1924, largely through subscriptions of alumni and former students but also with the help of other contributors. It has a seating capacity of 34,000. Mountaineer Field provides facilities for intramural and intercollegiate football, and track and field events. The Old Athletic Field is used for baseball, football and track and field practice.

THE HEALTH SERVICE

The Student Health Service is organized to provide medical service to the students of the University as well as to supervise the health conditions of the Campus.

The offices of the University physicians are in the Infirmary building, situated immediately to the rear of the President's home. Physician's office hours during the regular session are from 9:00 a. m. to 12:00 noon daily except Sunday, and from 2:00 p. m. to 5:00 p. m. daily except Saturday and Sunday. The services of a nurse are available at the infirmary from 9:00 a. m. to 9:00 p. m. At all hours medical aid may be summoned by calling 1900-Ex. 123. Rounds are made by a nurse twice daily at the dormitories.

The University Pharmacy, in the basement of Woodburn Hall, is open from 10:00 a. m. to 12:00 noon daily except Sunday and from 2:00 to 5:00 p. m. daily except Saturday and Sunday.

EMPLOYMENT AND PLACEMENT SERVICE

Student Employment:

Students desiring part-time work may register with H. E. Stone, Secretary of Loans and Placement, either before arrival in Morgantown or after enrollment.

Until the successful completion of at least one semester's regular University curricular work, freshmen should not attempt outside work in self-support unless absolutely necessary. Only the exceptional student can engage

in such work or activities during the first semester without danger to his scholastic status.

Senior and Graduate Placement Service:

The University Placement Service is in charge of H. E. Stone, Secretary of Loans and Placement. Alumni and seniors may avail themselves of this assistance in obtaining suitable positions. This bureau in Martin Hall registers candidates for positions, interviews registrants, analyzes the market for graduates, studies the policies and practices of employers in dealing with the college product, arranges interviews between employers and candidates, assists graduates in seeking promotion or change of position, and engages in research in the interest of perfecting these procedures. An extensive employer contact file is being built up. The bureau is visited by personnel and employment representatives of various corporations each year. It also works aggressively to supplement, stimulate, and extend placement activities in the University. The various colleges and departments cooperate freely with the central placement service. Placement applications will be furnished on request.

Placement Guidance:

Placement service shades off into vocational guidance at the beginning of its contact with students and into follow-up or adjustment service during later contacts. A placement guidance service is therefore maintained, including an occupations information bureau with several thousand books, booklets, leaflets, and letters on careers open to university trained men.

The Teachers' Placement Bureau:

The College of Education in cooperation with other units of the University maintains a Placement Bureau which makes available to school officials the credentials of students and alumni who are candidates for school positions. The facilities of the Bureau are available to students in both the regular and summer sessions. No charge is made for this service.

Blanks for registration will be furnished upon application. The regular annual enrollment in the Bureau takes place the second week in February.

While a conscientious effort is made to place all worthy applicants, no one is assured a position. General letters of recommendation are not given to candidates. Information in the files of the Bureau is regarded as confidential. The Bureau cannot undertake to furnish copies of its records to commercial or other private placement bureaus.

The Pharmacists' Register:

A pharmacists' register for the benefit of both the employer and employee has been established by the College of Pharmacy. No charge is made for services rendered.

GIFTS, SCHOLARSHIPS, AND LOAN FUNDS

Several individuals, as well as national patriotic, educational, fraternal, and religious organizations, have established scholarships, loan funds, prizes, trophies, and medals for students in the University. Very few of these are available to freshmen.

GIFTS

CARNEGIE CORPORATION MUSIC COLLECTION—Thanks to the generosity of the Trustees of the Carnegie Corporation of New York, West Virginia University in 1936 received as a gift, designed to stimulate and develop an interest in music culturally on the part of the entire student body, a Music Collection that cost the corporation $2,500. The set includes:

An electric phonograph of special design for use in small rooms and auditoriums; approximately 900 records, chosen as an anthology of recorded music, ancient and modern, from oriental and occidental countries; an oak cabinet with approximately 75 buckram albums in which to keep the records; a duplicate set of printed 3" x 5" card indexes of all records in the set, classified by composers, titles, mediums, forms, etc.; bound copies of full scores, when published in miniature, also bound vocal scores of operas and oratorios, which are included for all completely recorded works in the set; lastly, a selection of about 100 books on musical subjects, historical and biographical, and works of reference.

This Music Collection is attractively housed in Elizabeth Moore Hall and its use is administered under regulations designed to make it of greatest possible value to the students of the University.

SCHOLARSHIPS

AMERICAN BANKERS ASSOCIATION FOUNDATION FOR EDUCATION IN ECONOMICS LOAN SCHOLARSHIPS—The American Bankers Association Foundation for Education in Economics has assigned to West Virginia University three scholarships of $250 each. These scholarships will be "awarded only to deserving students of integrity, intelligence, character, competency, and aptitude, whose means of support are dependent wholly or in part on their own labor, to enable them to continue the study of courses in banking and economics in classes of junior grade or above. Scholarship of the highest rank will not be a definite requirement for a loan scholarship award; however, the Foundation desires to encourage students who will become leaders in professional or business life and does not wish loan scholarships granted to mediocre or inferior students." The holder of one of these scholarships is eligible for one re-appointment. The loan is without interest until the first day of the second January after the recipient leaves the University. Beginning on that date, interest accrues at the rate of five (5%) per cent per year, and repayment of both principal and interest in sums of no less than $10 monthly must likewise then begin.

WALTER HAINES SOUTH MEMORIAL SCHOLARSHIP—To perpetuate the name of her deceased brother, a graduate of the University, Mrs. Frederick J. Knutti of Morgantown has created The Walter Haines South Memorial Scholarship. This scholarship, open to deserving men, involves a total of $500 per annum. This fund has been placed in the hands of the West Virginia University Student Loan Fund Corporation for administration. Under the plan of operation of this fund, some one person will be selected who will receive the entire amount of this scholarship fund, without interest, while he is an undergraduate. The amount lent will be repaid over a period of four years after graduation.

THE BOARD OF GOVERNORS SCHOLARSHIPS IN MUSIC—One of these scholarships is to be awarded in the department of voice, one in the department of violin, and one in the department of piano. There will be eleven district contests in the state, and the winners of the district contests will meet in final competition at Morgantown. In each district and at Morgantown there will be contests in voice, in violin, and in piano. Those eligible to take part in the contests will be West Virginia high-school seniors who give promise of becoming eligible for regular enrollment in the School of Music of West Virginia University as candidates for a degree. Each scholarship to be awarded is to consist of exemption from payment of the contingent fee ($30 each semester) for the four academic years, beginning in the autumn immediately following graduation from high school and the winning of the scholarship.

These scholarships are to be offered first for the academic year 1937-38. The holder of a scholarship must maintain each semester a record of achievement deemed by the Scholarship Committee of the School of Music to be worthy of continuance of the award. Dates for the district and final contests will be announced.

CHARLES IRWIN TRAVELLI SCHOLARSHIP—This scholarship amounts to $250 a year and permits the holding student or students to devote their entire time to their University course. This year (1936-1937) the committee divided the amount between two students.

VICTOR E. ALBRIGHT SCHOLARSHIP—This scholarship is worth $200 per year and is to be awarded "to a boy or girl of good character, of fair health and of the White race, who was born and reared in Preston county and who graduated from a high school of Preston county in the year in which the scholarship is given."

SCHOLARSHIP IN PUBLIC SPEAKING—To the winner of first place in each of the four events (debate, oration, extempore speaking, and poetry reading) in the West Virginia Interscholastic Public Speaking Contest will be awarded a four-year scholarship in the College of Arts and Sciences of the University.

THE ELIZABETH DAVIS RICHARDS SCHOLARSHIP IN ENGLISH AND POETRY—In memory of Elizabeth Davis Richards, well known West Virginia authoress and patron of the English Club, an annual scholarship in the amount of $150 was established by Mr. Dell Roy Richards of Morgantown in December, 1936, to be awarded to some worthy upper-division or graduate student in the department of English.

THE JOHN BARTON PAYNE SCHOLARSHIP—The Hon. John Barton Payne, native of Taylor county and late president of the American Red Cross, bequeathed to the University the sum of $12,000, the income from which is to be used to aid two young men—one a native of Taylor county, the other a native of Preston county—to attend the University. Financial need and scholastic merit are prime considerations in making the award.

LOAN FUNDS

THE J. D. FINLEY LOAN FUND—A fund of $1,000 has been contributed to the University by the trustees of the estate of the Hon. J. D. Finley of Pittsburgh, Pa., in accordance with his last will and testament, to be used as loans to deserving students in the School of Medicine

THE THEODORE SMITH LOAN FUND—On Sunday afternoon, April 13, 1930, Theodore Smith, a sophomore in mining engineering, was drowned in an accident that occurred while he was canoeing on the Monongahela river, just below Lock No. 10. The tragic death of this popular student disclosed the fact that he was being financed through the University by the late Hon. James Elwood Jones. The youth, a person of high honor, had voluntarily taken out a life insurance policy of $2,000 with Mr. Jones as beneficiary. The payment of the amount of the policy was a distinct surprise to Mr. Jones, who had helped the young man with no expectation of and no agreement providing for repayment. In deference to the memory of Theodore Smith, Mr. Jones turned the $2,000 over to the University for the establishment of the Theodore Smith Loan Fund to perpetuate the youth's name. Application blanks may be obtained from the Secretary of Loan Funds.

THE REVOLVING LOAN FUND FOR MEN—A revolving fund to meet financial emergencies of University men was established in October, 1931. About $1,375 was raised by public subscription for this fund. By additional contributions the principal of the fund has been increased to $1,701. From this fund a total of 577 loans have been made amounting to more than $6,000. H. E. Stone, founder of the fund and Secretary of Loan Funds, is treasurer. Loans are made in small amounts and for short periods of time. No loans from this fund are made until after registration.

THE BALTIMORE AND OHIO RAILROAD LOAN FUND—A special fund for small loans to students registered in the College of Agriculture has been established by the Baltimore and Ohio Railroad. Information about this fund may be obtained from H. E. Stone, Secretary of Loan Funds, treasurer, or from Dean Fred D. Fromme of the College of Agriculture.

THE JOHN E. BOHAN LOAN FUND OF THE KAPPA DELTA PI EDUCATIONAL FRATERNITY—This fund was established in 1935 by the Alpha Upsilon Chapter of West Virginia University, in memory of Dr. John E. Bohan, long the honored sponsor of the chapter, to foster the professional education of teachers by making loans to students of Education who, in the judgment of the trustees of the fund, will make an early contribution to professional knowledge in Education.

OTHER LOAN FUNDS FOR MEN—The Morgantown Rotary Club has established an emergency loan fund for University men. Application for loans should be made to H. E. Stone, who acts as adviser for the fund.

Several other loan funds are available for men who by their records at West Virginia University have demonstrated their ability and integrity. These include the Knights Templar, the Scottish Rite, and the Grand Lodge Funds established by Masonic bodies. Other funds include those established by church boards, religious, fraternal, and civic associations. Information concerning these may be obtained from the Secretary of Loan Funds, H. E. Stone.

LOAN FUNDS FOR WOMEN—There are several loans available to women at West Virginia University. These have been provided by various agencies interested in higher education for women and include:

Elizabeth Ludington Hagans Chapter of the D. A. R.; Colonel John Evans Chapter of the D. A. R.; Knights Templar; West Virginia Federation of Women's Clubs; The Campus Club; The Farm Woman's Association; The Methodist Episcopal Church; Women's Student Government Association; Rhododendron; The P. E. O. Sisterhood; Pan-Hellenic Loan Fund; and national sororities.

Students should do no more borrowing than is absolutely necessary, but it is often wiser for students of good scholastic ability to borrow than to carry a burden of work so heavy as to interfere with good scholastic performance.

Loans are available in amounts varying from $50 to $400, preference being given to junior and senior students. Applications for loans may be made through the office of the Dean of Women.

PRIZES, TROPHIES, AND MEDALS

PRIZES

Awards for prizes in the University are made in accordance with the following rules:

No composition, in whole or in part, shall be submitted in competition for two prizes.

Only students pursuing courses leading to baccalaureate degrees are eligible for any prize offered, except for the James F. Brown prize.

No student shall be eligible to enter any contest who has not been a resident student in this University for at least one semester preceding the semester in which the contest is to be held, and who, unless he be a competitor for the James F. Brown prize, is not a resident student in good standing in the University in the semester in which the contest is held.

No successful contestant may become for a second time a competitor for the same prize.

If in any contest the judges find no manuscript of sufficient merit, there shall be no award of the prize for that year.

Students intending to compete in any essay-writing contest must notify the chairman of the Committee on Prizes not later than March 15. Three typewritten copies of each essay must be in the hands of the chairman of the committee not later than May 15.

The conditions upon which the awards in the several contests are made may be learned upon application to the President's office, or to the members of the Committee on Prizes.

THE WILLIAM JENNINGS BRYAN PRIZE—The Hon. William Jennings Bryan, before his death, gave a sum of money, the actual income of which is offered as a prize to the student in the University who shall write the best essay on some subject in the science of government. The amount of the prize for the present is $21. The subject assigned for the year 1937-38 is: "A One-House Legislative System."

THE TAX COMMISSION PRIZE—The honorable members of the State Tax Commission of 1902, namely, W. P. Hubbard, Henry G. Davis, John K. Thomp-

son, L. J. Williams, and J. H. Holt, gave the sum of $1,350 later increased by unawarded sums to $1,500, the income of which is to be used annually as a prize for the "best original work bearing on matters of taxation in West Virginia." The conditions of the competition are determined by the Council of Administration. The amount of the prize at present is $90. The subject assigned for 1937-38 is "Jurisdiction to Tax Corporate Bank Deposits and Receivables."

THE JAMES F. BROWN PRIZE—The Hon. James F. Brown, an alumnus of the University, "with a desire to stimulate the young men of the State to fuller consideration of the 'inalienable right' of mankind, and especially those guaranteed by the Constitution of the State and of the United States," has contributed $5,000 to the University, the income of which is to be "used as a prize for the best essay or paper each year on the subject of the individual liberties of the citizen as guaranteed by the Constitution." The income may be given as a single prize, or it may be divided into a first and second prize. For the present the award will be made as a single prize, $250 in amount. Any senior or graduate of any college of the University, within one year after receiving any bachelor's degree, may compete for this prize, but no holder of any graduate degree may become a competitor. The subject assigned for 1937-38 is: "Implications of Colgate v. Harvey."

THE WEST VIRGINIA STATE PHARMACEUTICAL ASSOCIATION PRIZE—The West Virginia State Pharmaceutical Association offers to the student making the best set of drawings in Pharmacy 10 a five-year, paid-up membership in the association.

THE WAITMAN BARBE MEMORIAL PRIZE—The English Club of West Virginia University offers an annual prize of $25 in memory of Waitman Barbe, poet, scholar, and adviser of the English Club during his long term of service on the Faculty. The prize shall be awarded to some student regularly enrolled as a junior or senior in West Virginia University, for creative work in the field of literature, either in prose or poetry or both. The minimum length of such composition must be 4,000 words in prose or 100 lines in poetry.

THE BOARD OF GOVERNORS MILITARY ESSAY PRIZE—The Board of Governors of West Virginia University each year offers a prize of $50 to the Cadet in the Division of Military Science and Tactics "who shall write the best essay on preparation against war."

CHI OMEGA SORORITY PRIZE—The Chi Omega sorority offers an annual $15.00 prize to the sociology major with the highest academic ranking. All work done at West Virginia University is taken into account and no student is eligible to compete for this prize unless his junior and senior years have been spent at West Virginia University. The prize is awarded at the annual June Commencement.

PHI LAMBDA UPSILON FRATERNITY PRIZE—Phi Lambda Upsilon, honorary chemical fraternity, offers annually the Alexander Reed Whitehill award to the student receiving the highest grade in chemistry during the freshman year. The award consists of an engraved ornament.

PRIZES IN PUBLIC SPEAKING—In each of the four events (debate, oration, extempore speaking, and poetry reading) in the West Virginia Interscholastic Public Speaking Contest a gold medal is awarded to the winner of first place; a silver medal to the winner of second place; and a bronze medal to all other speakers who participate in the semi-finals at the University. Each high school represented by a winner of first place is presented with a beautiful wall plaque with the escutcheon of the University mounted upon it.

The Intercollegiate Peace Association of America provides $100 in cash prizes to be awarded as follows: $50 for first prize; $30 for second prize; and $20 for third prize in the annual Intercollegiate Peace Oratorical Contest. This contest is held under the auspices of the department of public speaking of the University during the winter and each institution of higher learning in the state is entitled to send one representative.

TROPHIES

THE COLONEL JOHN BAKER WHITE TROPHY—Colonel John Baker White, a member of the West Virginia Board of Control, has given a handsome trophy-cup which is at all times on display at the headquarters of the University's Corps of Cadets and which is awarded semi-annually with suitable ceremony to the cadet company which has, during the preceding semester, attained the highest standard in military efficiency. After each award is made the cup is appropriately engraved with an inscription of the winning company and the name of the successful cadet captain.

ALPHA EPSILON DELTA PRIZE—The Alpha of West Virginia chapter of Alpha Epsilon Delta offers each year a silver cup to the freshman pre-medical student who has made the best scholastic record for the year in chemistry and zoology.

THE INTER-FRATERNITY SCHOLARSHIP TROPHY—Professor Arleigh Lee Darby of the Department of Romance Languages and Literatures offers a silver cup known as the Inter-Fraternity Scholastic Trophy. It is awarded at the end of the University year to the fraternity having the highest average scholarship standing for that year and is to remain in the possession of that fraternity during the following year. The cup becomes the permanent property of the fraternity that first wins it five times.

THE GEORGE C. BAKER TROPHY—The Hon. George C. Baker, graduate of the College of Law, offers a silver loving cup, possession of which is awarded each year to the Club Court in the College of Law winning the inter-club competition.

THE SPORT SHOP TROPHY—Mr. Carl P. Leatherwood, graduate of the University and a former four-sport Varsity athlete, offers a handsome trophy to the fraternity scoring the second highest number of points in the all-year athletic competition for fraternities. This trophy becomes the permanent possession of the organization winning it once.

THE MORGANTOWN POST TROPHY—The Morgantown Post, evening newspaper, offers annually a trophy which is symbolic of the interfraternity championship in basketball and is the permanent possession of the organization winning it once.

PAN-HELLENIC ASSOCIATION SCHOLARSHIP CUPS—The Pan-Hellenic Association offers two scholarship cups. Any sorority which is a member of the Women's Pan-Hellenic Council may compete for the cup, and it is awarded each year to the group having the highest average. The woman's fraternity which has maintained the highest average for three consecutive years is given permanent possession of the cup. The Pan-Hellenic Association also offers a cup each year to the pledge group which maintains the highest average.

MEDALS

THE BOARD OF GOVERNORS MILITARY MEDALS—The Board of Governors of West Virginia University offers the following medals as special rewards for excellence in military training: (1) To the Cadet having the highest record for shooting on the University rifle team, a gold medal; (2) to the Cadet having the second highest record for shooting on the University rifle team, a silver medal; (3) to the Cadet on the freshman rifle team with the highest aggregate score, a bronze medal; and (4) to the Cadet having the best record for military training and discipline, a gold medal.

THE LEHN AND FINK MEDAL—Through the generosity of Lehn and Fink, manufacturing chemists of New York City, the College of Pharmacy awards each year to the senior pharmacy student who, in the opinion of the Faculty of the College of Pharmacy, attains the highest scholarship, a gold medal. The medal is appropriately engraved.

THE WALTER E. DANDY MEDAL—In 1926, Dean John N. Simpson of the School of Medicine established the Walter E. Dandy gold medal to be awarded to the student of the graduating class of the School of Medicine who is judged by the faculty to be the most excellent. In making this award the factors of personality and adaptability, as well as marks in the different courses, will be taken into consideration.

HONOR SOCIETIES

PHI BETA KAPPA. The Alpha of West Virginia Chapter of the Phi Beta Kappa Society is established at the University. Stated meetings or public exercises of the society are held twice annually; the anniversary meeting on December 5, and the annual meeting during Commencement Week. The honor of membership may be conferred upon candidates for the degree of Bachelor of Arts who have maintained a high scholarship rank during their college course; also, upon members of the Faculty and alumni of the University, and upon distinguished citizens of the State.

SIGMA XI CLUB—The national organization of the Society of Sigma Xi is represented in the University by the Sigma Xi Club of West Virginia University. The purpose of the national society and of the local club is the encouragement of scientific research.

TAU BETA PI. The West Virginia Alpha chapter of the national engineering honor association of Tau Beta Pi was established in the College of Engineering in 1922. Students who rank in scholarship among the upper one-eighth of their class are eligible to election in their third year and all

who rank among the upper one-fourth of the class are likewise eligible in their fourth year. These together with alumni and honorary members constitute the chapter.

ALPHA ZETA. The West Virginia chapter of Alpha Zeta, the national agricultural honor fraternity, was instituted in the College of Agriculture in 1921. Sophomores and upper classmen who maintain high standing in scholarship and rank among the upper two-fifths of their respective classes are eligible to membership.

PHI UPSILON OMICRON. The Lambda chapter of Phi Upsilon Omicron, one of the national professional organizations in home economics, was established at the University in November, 1923. Its purpose is to promote the moral and intellectual development of its members, to help to develop leadership, and to advance home economics. Membership is open to juniors and seniors in home economics who rank in the upper two-fifths of the class in scholarship.

PHI LAMBDA UPSILON. Tau chapter of Phi Lambda Upsilon, national chemical honor fraternity, was established at the University in 1924. The chief object of the society is the promotion and protection of high scholarship and original investigation in all branches of pure and applied chemistry. Seniors and juniors who have attained a high standard of scholarship and character are eligible for membership.

SIGMA GAMMA EPSILON. Upsilon chapter was established at West Virginia University in 1927. The fraternity has for its objects the social, scholastic and scientific advancement of its members, the extension of the relations of friendship and assistance between the universities and scientific schools with recognized standing in the United States and Canada, and the upbuilding of a national college society devoted to the advancement of geology, mining, metallurgy, and ceramics. Seniors and juniors in the courses indicated, who have attained high scholarship rank, are eligible for membership.

ORDER OF THE COIF. A chapter of the Order of the Coif, a national law school honor society, was installed in 1925. Its members are selected by the Law faculty from the 10 per cent of the senior class in the College of Law ranking highest in scholarship.

PHI EPSILON PHI. Phi Epsilon Phi, botanical honor fraternity, was founded at West Virginia University in 1929. The fraternity has for its purpose the promotion of high scholarship, the inciting of interest in botanical research, and the encouragement of professional ideals. Seniors and graduate students who are engaged in botanical work and who have attained a high standard of scholarship and character are eligible for membership in the organization.

KAPPA TAU ALPHA. National journalistic honor society with scholarship standards similar to Phi Beta Kappa. The West Virginia chapter was established in 1930.

SIGMA PI SIGMA. Theta chapter of Sigma Pi Sigma, national physics honor fraternity, was installed in the University in 1929. The formal state-

ment of the objects of the fraternity is: "To reward high scholarship and promote interest in the advanced study of physics, to stimulate individual research, and to enable its members to keep pace with the progress of science." A student elected to membership must be taking some course in physics at the time of his election. Graduate students who are taking advanced work in physics and related subjects are eligible for membership.

KAPPA DELTA PI. Kappa Delta Pi, national honorary educational society, installed Alpha Upsilon chapter at West Virginia University, July 21, 1927. Election to this fraternity is conditioned upon high scholarship and desirable personal and professional qualities.

ALPHA EPSILON DELTA. The Alpha of West Virginia chapter of Alpha Epsilon Delta was established at West Virginia University in 1930. The chief object of the society is the promotion of high scholarship among pre-medical students. Juniors and seniors of high scholarship and character are eligible for membership.

OTHER UNIVERSITY ORGANIZATIONS

There are in the University various fraternities, sororities, societies, and clubs devoted chiefly to the social, educational, and athletic interests of the students. Some of the more important of these organizations are:

NATIONAL AND GREEK LETTER SOCIETIES

SOCIAL FRATERNITIES

Men

Beta Theta Pi
Delta Tau Delta
Kappa Alpha
Kappa Sigma
Phi Delta Theta
Phi Kappa Psi
Phi Kappa Sigma
Phi Kappa Tau
Phi Sigma Delta
Phi Sigma Kappa
Pi Kappa Alpha
Pi Kappa Phi
Pi Lambda Phi
Sigma Chi
Sigma Nu
Sigma Phi Epsilon
Tau Kappa Epsilon
Theta Chi
Inter-Fraternity Council

Women

Alpha Delta Pi
Alpha Phi
Alpha Xi Delta
Chi Omega
Delta Gamma
Gamma Phi Beta
Kappa Kappa Gamma
Phi Mu
Pi Beta Phi
Sigma Delta Tau
Theta Upsilon
Pan-Hellenic Association

PROFESSIONAL FRATERNITIES

Men and Women

Phi Delta Phi (Law)
Chi Sigma Delta (Economics)
Delta Phi Alpha (German)
Delta Sigma Rho (Forensic)
Eta Sigma Phi (Latin)
Kappa Delta Pi (Education)
Kappa Kappa Psi (Band)
Phi Alpha Delta (Law)
Phi Beta Pi (Medical)
Phi Chi (Medical)
Phi Upsilon Omicron (Home Econ.)
Theta Kappa Psi (Medical)

NATIONAL AND LOCAL ORGANIZATIONS

Agricultural Club
Cadet Hop Association
Council of Religious Agencies
Dolphin Club (Physical Education)
Engineering Society
English Club
Fi Bater Cappar (Men, Humorous)
Forestry Club
Home Economics Club
International Relations Club
Journaliers (Men, Journalistic)
La Tertulia (Spanish)
Le Foyer Francais (French)
Li-Toon-Awa (Sophomore, Women)
Matrix (Women, Journalistic)
Men's Glee Club
Mortar Board (Senior, Women)
Mountain (Men)
Orchesis (Women, Physical Ed.)
Physical Education Club
Press Club
Rhododendron (Junior Women)
Rowan Rifles (Military)
Scabbard and Blade (Military)
Sphinx (Senior, Men)
Swimming Club (Women)
University Band (Military)
University 4-H Club
University Bird Club (Zoology)
University Forestry Club
University Orchestra
University Scientific Society
Women's Athletic Association
Women's Glee Club
Women's Pan Hellenic Association (Inter-Sorority)
Women's Student Gov't Assn.
X Club
Student branches of the following:
Amer. Society of Civil Engineers
Amer. Institute of Elec. Engineers.
Amer. Society of Mechan. Engineers.
Amer. Inst. of Mining and Metallurgical Engineers

FACULTY ORGANIZATIONS

American Association of University Professors. The West Virginia branch of the American Association of University Professors now has a membership of more than forty. The present officers are: Dr. Leland Hart Taylor, president; Mrs. Lily Bell Deatrick, secretary.

Faculty Club. The Faculty Club of the University organized on March 10, 1921, is composed of the teaching and research and Extension staffs of the institution. The former residence of the late Dr. I. C. White, obtained by the University through the purchase of a large tract of land immediately adjacent to the Campus, has been converted into a club house and residence for the Faculty Club. Meals are served to members and their guests. The Club rooms provide a center for social activities of members of the Faculty.

Campus Club. The Campus Club is purely a social organization made up of members of the Staff and their wives and husbands. The Campus Club holds meetings regularly twice each month, and special meetings and functions at other times.

Cornell Club. The Cornell Club is composed of resident Faculty members who hold degrees from Cornell University. Regular meetings are held by the organization, the purposes of which are largely social.

West Virginia Alumni Association of Johns Hopkins. The West Virginia Alumni Association of Johns Hopkins was founded in 1913 and holds annual meetings on February 22, the anniversary of the establishment of Johns Hopkins University. Graduates and former students of Johns Hopkins are eligible for membership. During 1936-37 Dr. James M. Callahan is president and Dr. F. E. Clark is secretary.

PUBLICATIONS

University Publications:

The following publications are issued regularly at the University:

1. The West Virginia University Bulletin, issued monthly during the University year. The series includes the Catalogue of the University and the Announcements of the various colleges, schools, and divisions.

2. The bulletins and circulars of the Agricultural Experiment Station.

3. Circulars of the Agricultural Extension Division, including the Farm Women's Club leaflets, the 4-H Suggestions, the West Virginia Farm News (in cooperation with West Virginia Farm Bureau), and special pamphlets.

4. Agricultural News Service bulletins published weekly by the College of Agriculture.

5. The bulletins of the College of Engineering and Mechanic Arts.

6. The West Virginia Law Quarterly, the official publication of the West Virginia Bar Association, edited by the faculty of the College of Law.

7. Miscellaneous publications under the title "West Virginia University Studies."

8. The Proceedings of the West Virginia Academy of Science.

Student Publications:

The Athenaeum, the daily University newspaper, is published by the journalism students. The editorial and managerial staff is elected by the student body.

The Monticola, student yearbook of the University, is published by the junior class.

The Shampain, student humorous magazine, is published by a selected board chosen from the student body.

The Student Directory, the annual directory of the student body, is published by a selected board chosen from the student body. Profits from the sale of the Student Directory are allocated in part to the Student Loan Fund of the University.

All student publications are under the supervision of the Committee on Student Publications.

ASSOCIATED INSTITUTIONS

THE WEST VIRGINIA ACADEMY OF SCIENCE

Organized in 1924 to bring about closer affiliation among the scientists of the state and to encourage the pursuit of scientific work throughout the commonwealth, the West Virginia Academy of Science is a body of nearly 300 men and women who are interested in the service of science in the development of the state. The members are widely distributed throughout the state and are representative of colleges, high schools, and industries. Annual meetings, held at the various institutions of higher learning, are divided into sections on biology, chemistry, geology, and mining, mathematics and physics,

and social sciences. Transactions of the annual meetings are published under the auspices of the University.

THE WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY

The West Virginia Geological and Economic Survey, situated at West Virginia University, is governed by its own commission and receives separate appropriations.

One of the major purposes of the Survey is to have members of its staff, specialists in their field, investigate all the natural resources, and especially the mineral resources, of the state and to make the results of the investigations available to the public in the form of written reports and maps.

The Geological Survey was founded by an Act of the Legislature in 1898 and has functioned consistently since that date. It is recognized as one of the leading state surveys.

Accomplishments of the Survey include the complete topographic mapping of the state on 1-mile-to-the-inch quadrangles; the complete geologic mapping of the state by counties, and a state geologic map; the complete mapping of the soils of the state by counties (Pocahontas and Greenbrier counties not yet published); and the state relief map (scale 1 inch equals 4 miles).

Numerous special reports also have been made on coal, oil, gas, clays, limestones and cement, iron ores and building stone, mineral springs, manganese, deep-well records, and forest and wood industries.

The professional staff of the Survey is composed of five geologists and three chemists. Some of the staff members of the Survey serve as part-time teachers in the department of geology of the University, and there is close cooperation between the department and the Survey.

Government of the Survey is vested in the Geological Survey Commission, composed of the governor of West Virginia, the State Treasurer, the Commissioner of Agriculture, the President of West Virginia University, and the Director of the Agricultural Experiment Station.

THE WEST VIRGINIA BIOLOGICAL SURVEY

The West Virginia Biological Survey is an organization of voluntary workers whose purpose is the collection of information of every kind about the plants and animals of the state.

The executive committee of the Survey consists of a biologist from each of the colleges of the state with a chairman, secretary, and curator. There are no dues, and membership is open to all persons interested in the work of the Survey.

The repository for the plant and animal collections is in Science Hall, West Virginia University, Morgantown. Under the direction of the Survey a series of bibliographies dealing with the biology of the state is being published.

THE STATE ROAD COMMISSION

The Materials Laboratory of the State Road Commission is housed in Mechanical Hall of the University. Its work includes the testing of all materials used by the Commission, such as cement, aggregates, steel, bituminous materials, paints, gasolines, and oils.

Part III

CURRICULAR REQUIREMENTS AND COURSES OF INSTRUCTION IN THE COLLEGES, SCHOOLS, AND DIVISIONS

ABBREVIATIONS

The following abbreviations are used in the announcements of courses:

I—A course given in the first semester.
II—A course given in the second semester.
I, II—A semester course given in each semester.
I and II—A course given throughout the year.
S—A course offered only in the Summer Session.
Hrs.—Number of credit hours per course.
Prereq.—prerequisite.
†—Course omitted, 1937-38.

PLAN FOR NUMBERING COURSES

For convenience each course of study is designated by the name of the department in which it is given and the number of that course. The plan of numbering is as follows:

Courses 1 to 99—courses intended primarily for freshmen and sophomores.

Courses 100 to 199—courses intended primarily for juniors and seniors.

Courses 200 to 299—advanced courses open to juniors, seniors, and graduate students.

Courses 300 to 399—Courses open to graduate students only.

SCHEDULES

Prior to the opening of each semester, a schedule is printed announcing the courses to be offered in that semester in the College of Arts and Sciences, the College of Education, the School of Music, the Division of Physical Education, and the Department of Home Economics in the College of Agriculture. Schedules are prepared for the College of Engineering, the College of Law, the College of Agriculture, the College of Pharmacy, and the School of Medicine but are not printed. A complete schedule of all courses offered in the Summer Session is printed in the Summer Session bulletin.

NOTE

In the following departmental curricula the number of the course is indicated in bold-face type. The figure in parentheses immediately following refers to the value in semester credit hours offered for the course.

THE COLLEGE OF AGRICULTURE

For the purpose of administration, the College of Agriculture is divided into five branches: the Agricultural Experiment Station, organized for research and experimental work; resident instruction in agriculture; resident instruction in forestry; resident instruction in home economics; and extension work in agriculture, home economics, and boys' and girls' club work, carried on by the Division of Agricultural Extension. The descriptive matter on the pages which follow outlines the curricular requirements for resident instruction in agriculture, forestry, and home economics as well as the requirements for certification of teachers in these two fields. A more complete statement of the organization and purposes of the College of Agriculture, including a brief description of the work of the Agricultural Experiment Station and the Agricultural Extension Division, may be found on pages 34 to 37.

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, requirements as to residence, classification of students, examinations, grades, and honor points, as set forth in the General Information section (Part II) of this Catalogue.

AGRICULTURE

THE BACCALAUREATE DEGREE IN AGRICULTURE

The curriculum leading to the degree of Bachelor of Science in Agriculture is designed to provide a broad and well-grounded training in the general field of agriculture so that the student may be prepared for occupations requiring such general knowledge, and may have the foundation for such specialization as he may elect to pursue.

CREDITS AND HONOR POINTS

The degree of Bachelor of Science in Agriculture may be conferred upon any student who satisfies the entrance requirements and offers 144 hours' credit for college courses, including all requirements set forth below.[1]

The student must receive at least as many honor points as credits in order to be eligible for graduation.

REQUIRED AND ELECTIVE SUBJECTS

All the courses for the first two years are definitely required as set forth in the curriculum which follows. Modification will be permitted only under very unusual circumstances and must have the sanction of the Committee on Courses and Hours. Students who are not required to take military science must substitute elective credits. Agriculture 5, required of students deficient in farm practice, must be completed before the third year. The attention of the student is also directed to the regulation which requires the completion of

[1]A student may decrease the total number of hours required for graduation by doing work of superior quality. For details of this plan, see page 62.

first year English, English 1 and 2 or their equivalent, before any upper-division courses may be pursued for credit towards the degree.

During the last two years the student is permitted a choice of one of four curricula—agricultural economics, animal industry, plant industry, and vocational agriculture. The choice of a curriculum should be determined by the objectives of the student and should be guided by his aptitudes as revealed during the work of the first two years. Students desiring to qualify as teachers of agriculture or science in high schools should elect the curriculum in vocational agriculture, while those desiring special training in agricultural business and marketing should select the curriculum in agricultural economics. The curricula in animal industry and plant industry are designed for students who may wish to follow any of the several fields that are included under each of these broad divisions, or who wish general preparation. It should be noted that all four curricula are elastic enough to provide special preparation for the student who desires to enter the field of county agent work.

The required courses for the last two years are stated in the outlines of the four curricula. It is to be noted that regardless of the curriculum chosen, Animal Husbandry 102, Dairy Husbandry 101, Horticulture 101, and Horticulture 102 are required of all students. Electives may be chosen, without restriction as to college or department, with the approval of the advisory committee. However, the required and elective hours taken in the College of Agriculture must amount to no fewer than 60 hours in all. Provision is made for upper-division students who may wish to elect certain lower-division subjects such as languages.

Provision is also made for the occasional student who may wish to pursue a rather broad program of electives during the last two years.

The Dean of the College of Agriculture will act as adviser for all agricultural students and will assign students to other advisers whom he may designate.

FORESTRY

The huge resources of West Virginia's forested wilderness have been recognized by both federal and state authorities. A large developmental program is under way, including land acquisition for public parks and forests, increased fire protection, forest-stand improvement, flood control and watershed protection, soil-erosion control, submarginal land development, restoration of fish and game, and construction of public camps and summer home sites.

A program of such extensive character requires large numbers of trained foresters. In recognition of this demand a curriculum has been established in the College of Agriculture covering the full four years of a course in professional forestry. Together with laboratory work in silviculture, forest management, forest utilization, and forest protection, considerable time is spent in the field on land owned by the University and on the neighboring Coopers Rock State Forest and the Monongahela National Forest. There is opportunity to specialize in game management during the junior and senior years. The degree of Bachelor of Science in Forestry is offered.

CURRICULUM IN AGRICULTURE FOR THE FIRST AND SECOND YEARS

NOTE—Numbers in parentheses after course designations refer to the value in semester credit hours offered for the course.

FIRST YEAR, FIRST SEMESTER: Agriculture 1 (1 or 2); Biology 1 (4); Chemistry 3 (4); Geology 4 (3); English 1 (3); military science (1); physical education[1] (1). Total, 17 or 18 hrs.

FIRST YEAR, SECOND SEMESTER: Agriculture 2 (1 or 2); Botany 4 (4); Chemistry 4 (4); Economics 1 (3); English 2 (3); military science (1); physical education[1] (1). Total, 17 or 18 hrs.

SECOND YEAR, FIRST SEMESTER: Agronomy 1 (4); Zoology 3 (4); Chemistry 31[2] (4); Farm Economics 2 (3); military science (1); electives (2 or 3). Total, 18 or 19 hrs.

SECOND YEAR, SECOND SEMESTER:[3] Animal Husbandry 1 (3); Agronomy 2 (3); Bacteriology 141 (4); Entomology 2 (4); Poultry Husbandry 1 (4); military science (1). Total, 19 hrs.

OPTIONAL CURRICULA FOR THE THIRD AND FOURTH YEARS

On completion of the work of the first and second years the student may elect one of the following curricula: agricultural economics, animal industry, plant industry, or teaching vocational agriculture. Students desiring training in agriculture other than that provided by these curricula will be permitted to pursue a program of electives subject to the guidance and approval of the Committee on Courses and Hours.

CURRICULUM IN AGRICULTURAL ECONOMICS

THIRD YEAR: Animal Husbandry 102 (5); Dairy Husbandry 101 (5); Horticulture 101 (4) and 102 (4); Farm Economics 131 (3); Farm Mechanics 153 (3); Money and Banking 111 (3); electives (8). Total, 35 hrs.

FOURTH YEAR: Plant Pathology 103 (3); Farm Economics 104 (3) and 107 (2); Public Finance 212 (4); electives (25). Total, 37 hrs.

CURRICULUM IN ANIMAL INDUSTRY

THIRD YEAR: Animal Husbandry 102 (5), 162 (3); Dairy Husbandry 101 (5); Physics 1, 2, 3, and 4 (8); Genetics 111[4] (3); electives (12). Total, 36 hrs.

FOURTH YEAR: Animal Husbandry 203 (3); Animal Pathology 102 (3); Dairy Husbandry 222 (4); Poultry Husbandry 103 (2); Horticulture 101 (4) and 102 (4); electives (15). Total, 35 hrs.

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[1]Only 2 hours in the service program accepted toward graduation.
[2]Chemistry 233 (5 hrs.) may be substituted.
[3]In addition to the courses listed above, 2 hours in farm practice must be earned by students with insufficient farm experience. This requirement must be met before the beginning of the junior year (See Agriculture 5).
[4]Substitute Genetics 221 if possible.

CURRICULUM IN PLANT INDUSTRY

THIRD YEAR: Animal Husbandry 102 (5); Dairy Husbandry 101 (5); Horticulture 101 (4) and 102 (4); Physics 1, 2, 3, and 4 (8); Mathematics 3 or 4 (4 or 2); electives (7 or 8). Total, 36 or 37 hrs.

FOURTH YEAR: Genetics 221 (3); Botany 221 (4); Plant Pathology 103 (3); Entomology 103 (3); electives (22). Total, 35 hrs.

CURRICULUM FOR TEACHERS OF VOCATIONAL AGRICULTURE[5] [6]

The State Board of Education has set up definite requirements applicable to all college graduates desiring to teach in West Virginia high schools. These requirements specify the kind and number of various sciences and agricultural courses as well as courses in professional education subjects, all of which are necessary to qualify graduates for certification. The following curriculum, which embodies such courses required for certification, is designed to prepare the qualifying student for a teaching career in the specialized field of vocational agriculture, with provision for teaching biology as a second subject. It also satisfies the requirements for the B. S. Agr. degree.

To meet state requirements for teaching vocational agriculture a total of 50 hours in agriculture is required as provided in the following curriculum.

A complete statement of the requirements for certification to teach subjects related to agriculture will be found in the announcements of the College of Education.

THIRD YEAR: Animal Husbandry 102 (5); Dairy Husbandry 101 (5); Horticulture 101 (4) and 102 (4); Rural Organization 118[7] (2); Farm Economics 104 or 107 (3 or 2); Farm Mechanics 152 (2) and 153 (3); Education 109[8] (3) and 106 (3); American history (3). Total, 36 or 37 hrs.

FOURTH YEAR: Plant or animal pathology (3); public speaking (3); Political Science 106 (3); Education 160 (3), 112 (2); 224 (4); 120 (3); and 214 (2); Physical Education 178 (2) and 180 (2); Farm Economics 131 (3); Rural Organization 233 (3); biological elective[9] (2 or 3). Total, 35 or 36 hrs.

CURRICULUM IN PROFESSIONAL FORESTRY

FIRST YEAR, FIRST SEMESTER: English 1 (3); Mathematics 2 (3) and 10 (3); Mechanical Engineering 20 (3); Biology 1 (4); Forestry Lectures 1 (0); military science (1); physical education (1). Total, 18 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Chemistry 3 (4); Botany 2 (4); Forestry Lectures 2 (0); Civil Engineering 1 (2); military science (1); physical education (1); zoology (4). Total, 19 hrs.

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[5]English 13 should be taken in the first semester of the second year to satisfy the teacher-training requirements in English.

[6]For a list of subjects required to teach non-vocational agriculture, see the College of Education bulletin.

[7]Biology 101 or Forestry 190 also satisfy the co-curricular requirements.

[8]Certain other educational courses (101, 166, 203, 225S, 231, 233, 236, 263S, 281, 284, 285) may be substituted.

[9]Suggested: Animal pathology, plant pathology, genetics, forestry.

SECOND YEAR, FIRST SEMESTER: Physics 1 and 3 (4); Civil Engineering 2 (4); Chemistry 4 (4); Forest Protection 51 (2); Dendrology 3 (3); military science (1). Total, 18 hrs.

SECOND YEAR, SECOND SEMESTER: Botany 130 (4); Dendrology 4 (3); Geology 1 (3); Forest Mensuration 21 (4); military science (1): elective (2). Total, 17 hrs.

SUMMER CAMP: 10 weeks.

THIRD YEAR: Economics 103 (3); Agronomy 102 (3); Business Administration 101 (3); Silvics 11 (3); Plant Physiology 221 (4); Wood Technology 131 (3); Forest Mensuration 122 (3); Wood Technology 132 (3); Entomology 152 (4); Silviculture 112 (4); elective (4): Total, 37 hrs.

Employment by forest-using agency—3 months.

FOURTH YEAR: Forest Organization 123 (4); Lumbering 133 (4); Forest Economics 114 (3); Game Management 141 (3); Forest Finance 124 (2); Forest Products 134 (2); Wood Preservation 135 (2); Forest Policy 115 (3); Recreational Engineering 142 (3); Forest Administration 125 (2); Plant Pathology 153 (4); Silviculture 113 (3). Total, 35 hrs.

COURSES OF INSTRUCTION

AGRICULTURE

Dean FROMME and STAFF in AGRICULTURE

Undergraduate Division

1. **Introduction to Agriculture.** I. 1 or 2 Hrs. A survey of the history and practice of the general field of Agriculture with special reference to opportunities and problems in West Virginia.
Mr. Parsons, Mr. Olney, and Staff in Agriculture

2. **Introduction to Agriculture.** II. 1 or 2 Hrs. Continuation of Agriculture 1. Mr. Parsons, Mr. Olney, and Staff in Agriculture

5. **Summer Practice.** 2 Hrs. A minimum of 12 weeks on an approved farm will be required of each candidate for the degree of Bachelor of Science in Agriculture who has not had the equivalent of at least one year's farm experience after reaching the age of 14 years. Must be done under the direction of the Dean and the Committee on Farm Practice. Open only to students deficient in farm practice.

280, 281. **Special Topics.** I and II. 2 or 3 Hrs. per semester. Special work may be provided in each of the departments for students having the needed qualifications. The consent of the respective department head is required. Departmental Staffs

Graduate Division

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. (See description under this number in each department.) Work for the degree of Master of Science consists chiefly of course offerings and no more than 6 credit hours of research, with special emphasis on a major subject to be selected from one of the several departments.

Work for the degree of Doctor of Philosophy is limited to a few selected fields and will consist of research as well as the required course work. Departmental Staffs

AGRICULTURAL CHEMISTRY

Professor DUSTMAN and Assistant Professor RAFFERTY

Chemistry courses for agricultural and home economics students of undegraduate rank are offered in the College of Arts and Sciences (see Chemistry). Graduate work may be pursued under the general research course outlined under Agriculture, above.

31, 131. Organic Chemistry. I. 4 Hrs. For students in agriculture and home economics. Chemistry 9 may accompany this course. Prereq.: Chemistry 4, or 2 and 9. Mr. Dustman

280, 281. Special Topics. I and II. 2 or 3 Hrs. per semester. Staff

380, 381, 382, 383. Research. 1 to 6 Hrs. per semester. Staff

BIOCHEMISTRY

139, 239. General Biochemistry. II. 4 Hrs. Fundamental biochemistry of both animals and plants. Prereq.: Chem. 31, 36, or 233. Two lectures and two laboratories. Graduate students will be required to do one additional hour per week of assigned work for 4 hours' credit. Mr. Rafferty and Staff

AGRONOMY AND GENETICS

Professor PIERRE; Associate Professor BURNHAM; Assistant Professors CARTLEDGE and POHLMAN; Instructor RIGNEY

AGRONOMY

Undergraduate Division

1. Farm Crops. I. 4 Hrs. Cereal, forage, and pasture crops. Mr. Pohlman and Mr. Rigney

2. Soils. II. 3 Hrs. The properties of soils. Mr. Pohlman

200. Advanced Crops. II. 2 or 3 Hrs. Production, classification, and market grading of cereal and forage crops. Prereq.: Agronomy 1. Mr. Pohlman

210. Fertilizers and Soil Fertility. II. 2 or 3 Hrs. Soil fertility; theories and practices in use of fertilizer. Prereq.: Agronomy 2. Mr. Pierre

280, 281. Special Topics. I and II. 2 to 3 Hrs. per semester. Staff

Graduate Division

314. Soil Microbiology. II. 3 Hrs. Occurrence of micro-organisms in soils and their relationship to decomposition of organic matter, availability of plant nutrients, and soil acidity; technique of isolation and study. Offered in alternate years. Mr. Pohlman

†316. **Soil Chemistry.** I. 3 Hrs. Fundamental chemical properties of soils in relation to plant growth; nature and properties of soil colloids; base exchange and soil acidity; availability of plant food elements and soil-plant interrelationships. Offered in alternate years. **Mr. Pierre**

350, 351. **Seminar.** I and II. 1 Hr. per semester. Recent literature pertaining to soils and crop production. **Staff**

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. Staff

GENETICS

Undergraduate Division

111. **Elementary Genetics.** I, II. 2 or 3 Hrs. Elementary study of the principles of heredity. One laboratory optional. **Mr. Cartledge**

112. **Genetics Laboratory.** I, II. 1 Hr. Inheritance in plants or animals. **Mr. Cartledge**

221. **Genetics.** I. 3 Hrs. Fundamental principles of inheritance. **Mr. Cartledge**

222. **Advanced Genetics.** II. 3 Hrs. Prereq: Genetics 221 and Biology 210. **Mr. Burnham**

250, 251. **Seminar.** I and II. 1 Hr. per semester. Recent literature pertaining to breeding, genetics, and cytology. **Staff**

280, 281. **Special Topics.** I and II. 2 to 3 Hrs. per semester. Staff

Graduate Division

332. **Biometry.** II. 3 Hrs. Statistical analysis of biological data. Offered in alternate years. **Mr. Cartledge**

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. Staff

ANIMAL HUSBANDRY

Professor LIVESAY; Associate Professor RIETZ; Assistant Professors WILSON, LONGWELL, and WIGHTMAN; and Graduate Assistant BUCHANAN

ANIMAL HUSBANDRY

Undergraduate Division

1. **Animal Nutrition.*** II. 3 Hrs. Digestion and metabolism of food nutrients, nutrient requirements of farm animals, and nutritive values of feeds and rations. **Mr. Longwell**

102. **Livestock Production and Management.*** I. 5 Hrs. Market types, breeds, production, and management of beef cattle, hogs, and horses. **Mr. Livesay and Mr. Buchanan**

138. **Livestock Grading and Selection.** II. 2 Hrs. Staff

143. **Advanced Livestock Judging.** I. 2 Hrs. Students taking this course will be required to participate in a tour of inspection of representative flocks, herds, and studs. **Staff**

162. **Mutton and Wool Production.** II. 3 Hrs. Mr. Wilson

†Omitted 1937-38.

166. **Meats.** II. 2 Hrs. Lectures and demonstrations on the identification, selection, and nutritive value of meat cuts. Primarily for home economics students. Mr. Longwell

167. **Meats.** I. 3 Hrs. Farm butchering, curing, and care of meats. Visit to one of the large packing houses of Pittsburgh required of all students taking this course. Mr. Longwell

169. **Meat Judging.** I. 1 Hr. Mr. Longwell

203. **Advanced Animal Nutrition.** I. 3 Hrs. The chemistry of feeding stuffs and of the animal body, as well as of the digestion and metabolism of food nutrients. Mr. Longwell

222. **Breeding Farm Animals.** II. 3 Hrs. Physiology of reproduction; inheritance; selection, care, and management of breeding animals. Mr. Livesay

235, 236. **Current Literature.** I and II. 1 Hr. per semester. Staff

280, 281. **Special Topics.** I, II, S. 2 or 3 Hrs. per semester. Advanced studies in various phases of Animal Husbandry: animal genetics; energy metabolism; protein metabolism; vitamin studies; parasitology. Staff

ANIMAL PATHOLOGY

102. **Animal Pathology.** I. 3 Hrs. Prereq.: General Zoology. Mr. Rietz

206. **Parasites and Pathology.** II. 3 Hrs. Prereq.: Invertebrate zoology; for non-agricultural students, consent of instructor. Mr. Rietz

POULTRY HUSBANDRY

1. **Poultry Husbandry.** II. 4 Hrs. Prerequisite to all other poultry courses. Mr. Wightman

103. **Poultry Management.** I. 2 Hrs. Factors in poultry management as related to scientific investigations. Mr. Wightman

105. **Poultry Judging.** I. 2 Hrs. Practice in the selection of birds for both standard and production qualities. Mr. Wightman

Graduate Division

370. **Methods of Animal Husbandry Research.** I, II, S. 3 Hrs. A study of research methods which are being used in conducting experimental work in animal husbandry. Staff

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. Available to students in all divisions of animal husbandry. Staff

DAIRY HUSBANDRY

Professors HENDERSON and DUSTMAN; Assistant Professors BOWLING and MARTEN; Instructors MANUS and BROWN; Graduate Assistant KEENER

Undergraduate Division

101. **Principles of Dairying.** I. 5 Hrs. Prerequisite to all other courses in the department except Dairy Husbandry 107. Mr. Henderson and Mr. Manus

*Animal Husbandry 1 and 102 are prerequisite to all courses in the department, including animal pathology courses.

†102. **Dairy Manufactures.** II. 4 Hrs. Manufacture of ice cream, condensed milk, and dry milk. Offered in alternate years. Mr. Brown

103. **Dairy Manufactures.** II. 4 Hrs. Market milk and manufacture of butter and cheese. Offered in alternate years. Mr. Manus

107. **Milk and Public Health.** I. 2 or 3 Hrs. Mr. Henderson and Mr. Manus

123. **Dairy Judging.** II. 1 or 2 Hrs.
Mr. Bowling, Mr. Brown, and Mr. Manus

204. **Dairy Technology.** II. 4 Hrs. Chemical and bacteriological methods used in the technical control of milk and milk products. Prereq.: Dairy Husbandry 101 and 102 or 103. Mr. Brown

218. **Dairy Chemistry.** I. 3 Hrs. Offered in alternate years. Prerequisite for graduate students: Chemistry 106 or equivalent, Chemistry 31 or 233, and Dairy Husbandry 101. Mr. Dustman

221. **Dairy Cattle.** I. 3 Hrs. History of breeds and families of registered dairy cattle. Organization and activities of breed associations.
Mr. Bowling

222. **Milk Production.** II. 4 Hrs. Feeding and management of dairy cattle.
Mr. Henderson

246. **Dairy Bacteriology.** II. 3 Hrs. The role of microorganisms in market milk, in manufacture of butter, cheese, and fermented milk, and in milk hygiene; preparation of media; making bacterial counts of milk. Prereq.: Bacteriology 141. Mr. Marten

280, 281. **Special Topics.** I and II. 2 or 3 Hrs. per semester. Staff

Graduate Division

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. Staff

ENTOMOLOGY

Professor PEAIRS and Graduate Assistant HAMSTEAD

Undergraduate Division

2, 102. **Entomology.** II. 4 Hrs. Prerequisite to all other courses offered in the department. Biological, morphological, taxonomic, and economic phases of the study of insects. Prereq.: Invertebrate zoology.

103. **Economic Entomology.** I. 3 Hrs. Standard practices in insect control; method for study of injurious insects. Professional requirements in entomology. Mr. Peairs

201. **Survey of Applied Entomology.** I. 3 to 5 Hrs. Principles underlying the control of insects; cultural, biological, and chemical. Practice in biological and control investigations. Prereq. for graduate credit: 20 hours in the field of biology. Mr. Peairs

204. **Taxonomy.** I, II, S. 2 or 3 Hrs. per semester. Studies in the families and genera of insects of the region; detailed studies in restricted groups for qualified students. Mr. Peairs

†Omitted, 1937-38.

280, 281. **Special Topics.** I, II, S. 2 or 3 Hrs. per semester. Advanced studies in the field of interest of the student. The following are available: life history studies; response of insects to climatic variables; insect toxicology; injurious insects. Mr. Peairs

Graduate Division

370. **Methods of Entomological Research.** I, II. 3 Hrs. A study of methods which have been proposed and used for the solution of problems arising in the study of insect biology. Mr. Peairs

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. Staff

FARM ECONOMICS

Professor ARMENTROUT and Assistant Professor CORNELL

Undergraduate Division

2. **Farm Economics.** I. 3 Hrs. Principles of economics as applied to agriculture. Mr. Armentrout

104. **Farm Management.** II. 3 Hrs. Principles of choosing, equipping, and operating a farm. Mr. Cornell

107. **Farm Records and Accounts.** I. 2 Hrs. Mr. Armentrout

131. **Marketing Agricultural Products.** I. 3 Hrs. Principles and practices of marketing agricultural products by both private and cooperative agencies. Mr. Armentrout

280, 281. **Special Topics.** I and II. 2 or 3 Hrs. per semester. Staff

Graduate Division

340. **Advanced Farm Management.** II. 3 Hrs. Mr. Cornell

341. **Production Economics.** I. 3 Hrs. Advanced Study of economic principles of production with special application to agriculture. Mr. Armentrout

342. **Advanced Agricultural Economics.** I. 3 Hrs. Mr. Armentrout

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester. Staff

FARM MECHANICS

152. **Farm Shop Work.** II. 2 Hrs. Instruction in woodworking, cold metal work, concrete construction, rope work, pipe fitting, soldering, tool fitting, etc., as related to farm construction and repair problems. Mr. Cornell

153. **Farm Mechanics.** II. 3 Hrs. Principles underlying the construction, adjustment, and operation of field and power machinery; land clearing, drainage, and erosion problems. Mr. Cornell

159. **Farm Buildings and Sanitation.** II. 3 Hrs. Design and construction of farm buildings; farm sanitation problems. Mr. Cornell

HORTICULTURE

Professor MARSH; Associate Professor WESTOVER; Instructors CHILDS, DYE, and BRASHER

Undergraduate Division

101. **Principles of Horticulture.** I. 4 Hrs. Fruit production with some attention to seasonal activities in vegetable growing. Prerequisite to all courses in pomology. Mr. Marsh and Mr. Childs

102. **Principles of Horticulture.** II. 4 Hrs. Vegetable production with some attention to seasonal activities in fruit growing. Prerequisite to all courses in olericulture. Mr. Westover and Mr. Brasher

115. **Judging and Identification of Apple Varieties.** I. 1 Hr. Two laboratory periods first half of semester. Mr. Childs

139. **Landscape Gardening.** I. 2 Hrs. Theory and practice of landscape design with special application to home grounds. Mr. Dye

140. **Plant Materials.** II. 2 Hrs. Important woody and herbaceous plants used in landscape gardening. Mr. Dye

206. **Small-Fruits Production.** II. 2 or 3 Hrs. A practical and scientific study of standard cultural practices in the small-fruit plantation. Offered in alternate years. Mr. Childs

209. **Systematic Pomology.** I. 3 Hrs. History, botany, and classification of fruits. Offered in alternate years. Mr. Marsh and Mr. Childs

212. **Commercial Tree-Fruit Production.** II. 2 or 3 Hrs. Latest methods in pruning, spraying, soil culture, and other production practices for fruit trees from the practical and scientific standpoint. Mr. Marsh and Mr. Childs

213. **Harvesting, Packing, and Storage of Fruits.** I. 3 Hrs. Instruction in maturity standards for harvesting, grading according to national and state standards, and planning and management of packing houses and storages. Mr. Marsh and Mr. Childs

232. **Commercial Vegetable Production.** II. 2 or 3 Hrs. Current methods of commercial vegetable crop production including equipment, soil and climatic adaptation, plant raising, soil culture, harvesting, grading, and packing. Mr. Westover and Mr. Brasher

233. **Systematic Olericulture.** I. 3 Hrs. History, botany, and classification of vegetable crops. Offered in alternate years. Mr. Westover and Mr. Brasher

280, 281. **Special Topics.** I and II. 2 or 3 Hrs. per semester. Staff

Graduate Division

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. per semester Staff

PLANT PATHOLOGY AND FORESTRY

Professors ORTON and LEONIAN; Assistant Professors CORE, MARTEN, PERCIVAL, and POHLMAN; Instructor Miss CLULO

BACTERIOLOGY

Undergraduate Division

141. General Bacteriology. I, II. 4 Hrs. (for engineering students, 3 Hrs.). Mr. Marten

246. Dairy Bacteriology. II. 3 Hrs. The role of microorganisms in market milk, in the manufacture of butter, cheese, and fermented milk, and in milk hygiene; practice in the preparation of media; making bacterial counts of milk. Prereq.: Bacteriology 141. Mr. Marten

280, 281. Special Topics. I and II. 2 to 3 Hrs. per semester Mr. Marten

Graduate Division

314. Soil Microbiology. II. 3 Hrs. Occurrence of micro-organisms in soils and their relationship to decomposition of organic matter, availability of plant nutrients, and soil activity; technique of isolation and study. Offered in alternate years. Mr. Pohlman

BIOLOGY

Undergraduate Division

210. Cytology. I. 4 Hrs. The fundamentals of cell structure and inclusions in plants and animals with special attention to nuclear division. Mr. Orton and Miss Clulo

Graduate Division

350, 351, 352, 353. Seminar. I and II. 1 Hr. per semester. (4 Hrs. maximum). Mr. Orton, Mr. Cartledge, Mr. Reese, and Mr. Strausbaugh

FORESTRY

Undergraduate Division

1, 2. Forestry Lectures. I and II. (No credit). Lectures designed to acquaint students of forestry with the profession which they have chosen. Required of all freshmen in forestry. Mr. Percival

3. Dendrology. I. 3 Hrs. Identification of forest trees and shrubs in summer and fall conditions. Prereq.: Biology 1 and Botany 4. Mr. Core

4. Dendrology. II. 3 Hrs. Identification of forest trees and shrubs in winter and spring conditions. Prereq.: Forestry 3. Mr. Core

11. Silvics. II. 3 Hrs. Forests in relation to the various factors which influence their composition and growth. Prereq.: Forestry 3. Mr. Percival

21. Forest Mensuration. II. 4 Hrs. Theory and practice of volume measurement of forest stands. Prereq.: Civil Engineering 2. Mr. Percival

51. Forest Protection. I. 2 Hrs. Principles of forest fire-fighting and instruction in the use of fire-fighting equipment. Mr. Percival

180. **Farm Forestry.** II. 2 Hrs. Principles of forest management and their application to the establishment, care, and utilization of the farm woods. Prereq.: Biology 1 and Botany 4. Mr. Percival

190. **Introduction to Forestry.** I. 3 Hrs. What the forests mean to the state and nation. A general informatory course for those interested in conservation and utilization of our forest resources. Mr. Percival

PLANT PATHOLOGY

Undergraduate Division

103. **Economic Plant Pathology.** I. 3 Hrs. The important diseases of field, garden, and orchard crops; methods of control. Mr. Orton and Miss Clulo

202. **General Plant Pathology.** II. 5 Hrs. Nature of disease in plants, with practice in laboratory methods. Prereq.: Bacteriology 141. Mr. Orton and Staff

280, 281. **Special Topics.** I and II. 2 or 3 Hrs. per semester. Staff

Graduate Division

303. **Mycology.** I. 4 Hrs. Lectures, field, and laboratory studies of the parasitic and saprophytic fungi. Mr. Orton and Mr. Leonian

†313. **Parasitism.** I. 4 Hrs. Physiology of the bacteria and fungi and their mode of parasitism. Prereq.: Plant Pathology 202. Offered in alternate years. Mr. Orton and Mr. Leonian

380, 381, 382, 383. **Research.** I and II. 1 to 6 Hrs. Mr. Orton and Staff

RURAL ORGANIZATION

Associate Professors PARSONS and OLNEY

NOTE—Rural Organization 233 satisfies the sociology requirement, and Rural Organization 118 satisfies the co-curricular activity requirement, for teachers of vocational agriculture in West Virginia high schools.

Undergraduate Division

†118. **Organizations and Clubs for Farm Boys.** I. 2 Hrs. Problems involved in directing the activities of F. F. A., 4-H Clubs, and similar organizations. This course satisfies the co-curricular requirement for agriculture teachers. Offered in alternate years. Mr. Olney

134. **Methods of Agricultural Extension.** I. 2 Hrs. Activities of the county agricultural and home demonstration agents and the agricultural extension program of West Virginia. Offered in alternate years. Mr. Parsons

*160. **Education—Materials and Methods of High-School Teaching of Vocational Agriculture.** I, II. 3 Hrs. Organization and preparation for teaching vocational agriculture in the high school. Mr. Parsons and Mr. Olney

*224. **Education—Student Teaching in Vocational Agriculture.** I, II. 3-5 Hrs. Mr. Parsons and Mr. Olney

233. **Rural Organizations.** II. 3 Hrs. Conditions and factors involved in rural life improvement. Observation and participation in programs requiring several afternoon and evening out-of-town trips. Offered in alternate years. Mr. Parsons

HOME ECONOMICS

THE BACCALAUREATE DEGREE IN HOME ECONOMICS

The course leading to the degree of Bachelor of Science in Home Economics is planned for women students and especially for those who wish to teach home economics in vocational schools and other institutions or who wish to learn the business of home-making. To provide for this training a curriculum is suggested. Sufficient electives are allowed to permit the student to qualify for home economics, or to select other courses in which she is interested.[1]

CREDITS AND HONOR POINTS REQUIRED

The degree of Bachelor of Science in Home Economics will be conferred upon any student who satisfies the entrance requirements and offers 128 hours' credit of college courses, including all requirements set forth below.* The student must receive at least as many honor points as credits in order to be eligible for graduation. For a complete description of the honor-point system see page 62.

Of the 128 hours required for the degree, 84 hours are prescribed as indicated in the curriculum which follows. The remaining 44 hours must be elected from courses approved by the class adviser. The required and elective courses in the subject of home economics must amount to no fewer than 40 hours in all. No student is permitted to register for less than 14 or more than 18 hours in one semester, or more than 34 hours of work in any one year, without permission of the Committee on Scholarship.

CLASSIFICATION OF STUDENTS

To be classified as a conditional freshman a student must have credit for at least 15 units of entrance requirements; to be classified as a regular freshman she must have fulfilled all entrance requirements. To be classified as a sophomore she must have credit for 25 hours of college work; as a junior, 58 hours; as a senior, 92 hours.

CLASS ADVISER

The head of the department of home economics will act as class adviser. All students who wish to enter the University for the purpose of taking home economics should confer with the head of the department before registering.

COURSES REQUIRED OF ALL STUDENTS IN HOME ECONOMICS

English, rhetoric, and literature (no more than 3 hrs. in public speaking), 12 hrs.; chemistry, 8; history, 4; biological science (including bacteriology), 10; economics and sociology, 6; physical education, 4; total, 44 hrs.

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[1]See page 35.

*A student may decrease the total number of hours required for graduation by doing work of superior quality. For details of this plan, see page 62.

Home economics: foods, 10 hrs.; textiles and clothing, 8; applied arts, 8; home management, 6; child development, 2; electives, 6; total, 40 hrs.; general electives, 44 hrs.; grand total, 128 hrs.

CURRICULUM SUGGESTED

The curriculum given below is suggestive as regards subjects, and may be varied by the class adviser to meet the needs of individual students, but the curriculum indicates the subject which are usually advised for students who desire to take major work in home economics.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Home Economics 31 (4); History 1 (3); Chemistry 3 (4); Physical Education 1 (1); Home Economics 1 (1). Total, 16 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Home Economics 17 (4); History 2 (3); Chemistry 4 (4); Physical Education 2 (1). Total, 15 hrs.

SECOND YEAR, FIRST SEMESTER: Biology 1 (4); Home Economics 3 (4); Electives[1] (4); Physical Education 3 (1); English or Public Speaking (3). Total, 16 hrs.

SECOND YEAR, SECOND SEMESTER: Botany 2 (4); Home Economics 4 (4); Physiology 51 (4); Physical Education 4 (1); English (3). Total, 15 or 16 hrs.

THIRD YEAR: Home Economics 107 (4); 115 (2); 120 (2); 135 (4); and 240 (2); Sociology 101 (3); Zoology 2 (4); Bacteriology 141 (4); electives[2] (9). Total, 32 hrs.

FOURTH YEAR. Home Economics 251 (2); 252 (3); 254 (3); electives (24). Total, 32 hrs.

CURRICULUM FOR TEACHERS OF VOCATIONAL HOME ECONOMICS

THIRD YEAR: Home Economics 107 (4); 115 (2); 120 (2); 135 (4); and 240 (2); Sociology 101 or biology (3); Education 106 (3); 109 (3); and 112 (2); Bacteriology 141 (4); electives[3] (5). Total, 34 hrs.

FOURTH YEAR: HOME Economics 251 (2); 252 (3); and 254 (3); Education 262 (2); 224 (3); 163 (2); 120 (3); and 214 (2); health education (2); electives[3] (10). Total, 32 hrs.

Students who are looking forward to further work in nutrition as cafeteria managers or hospital dietitians should take Chemistry 31, 5, 6, and 222, physiological chemistry, and Home Economics 105, 108, 215, and 216.

Students who wish to do further work in clothing and textiles should take Chemistry 31 and 5, Economics 1 and 2, and Home Economics 125 and 226.

Students who wish to teach home economics must meet some one of the certificate requirements as specified under requirements for certification.

[1]Economics 1, Psychology 1, and political science suggested.
[2]Chemistry 31 and Sociology 210 suggested.
[3]Biology to make 24 hours.

RECOMMENDATION FOR CERTIFICATION OF TEACHERS

Students who wish to obtain a high-school certificate to teach home economics must meet the requirements of the State Board of Education and of the College of Education. Recommendation for certification is made by the division of home economics education in the College of Education to the dean of the College of Education. For requirements see the College of Education bulletin.

The head of the home economics department in the College of Agriculture is also a member of the College of Education and is the adviser for students wishing to meet the requirements for a high-school certificate to teach home economics. The curriculum leading to the B. S. H. E. degree is planned to meet these requirements.

Two types of high-school certificates in home economics are possible: (1) for teachers of home economics with a second teaching subject; and (2) for teachers of vocational home economics.

Students transferring from other institutions should ordinarily do so not later than the junior year. A minimum residence of the entire senior year is required and students with irregular schedules or who wish a secondary teaching subject will require a longer time. A suggestive curriculum is given on page 102.

REQUIREMENTS FOR TEACHERS OF HOME ECONOMICS WITH A SECOND TEACHING SUBJECT

(See College of Education Bulletin)

REQUIREMENTS FOR TEACHERS OF VOCATIONAL HOME ECONOMICS

Students who wish to obtain the vocational home economics certificate must meet the requirements for the high-school certificate to teach home economics only as well as for the vocational home economics certificate.

I. COURSES (minimum hours)	*Hrs.*	*Total*
General:		
English and public speaking	12	
Chemistry	8	
Biology, including bacteriology and physiology	20*	
History, economics, sociology, and political science	15	
Physical education and health	6	65
Professional:		
Education 106, 109, 120, 112, 214, or their equivalent	13	
Education 163, and 224	5	
Education 262 (Vocational Home Economics in secondary schools)	2	20
Technical:		
Home economics		
Foods and Nutrition	12–14	
Textiles and Clothing	8–10	
Applied arts	8	
Home management	8	
Child development	2	40
Electives		3
Total		128

*After July 1, 1937, 24 hours.

II. SCHOLARSHIP:

A satisfactory quality of work with more than a general average of 1 honor point per credit hour and with more than an average of 1 honor point per credit hour in each teaching field and in Education.

III. TEACHING ABILITY:

Of superior quality, as demonstrated in a semester of directed teaching at the University High School, an approved vocational high school, under supervision of the home economics department in the College of Agriculture and the College of Education.

IV. HOME-MAKING EXPERIENCE:

1. Residence in the University Home Management House of sufficient length to show the abilities necessary in the management of the home.
2. Vocational experience in all phases of home-making.
3. Experience in group feeding under supervision.
4. Child-care project.

V. PERSONALITY TRAITS:

A superior standard of personal characteristics as shown by rating scales and approved by the departmental staff.

COURSES OF INSTRUCTION IN HOME ECONOMICS

Professor COLWELL, Assistant Professors CAMERON, NESBITT, NOER, PALMER, and Misses DIETRICH, HAGY, SHEPHERD, and WHITE

(1) Students in the College of Arts and Sciences who major in home economics must meet the requirements in that college and also the departmental requirements as outlined in the general Catalogue.

(2) Students who wish to obtain the high school certificate to teach home economics must meet the requirements of the State Board of Education, the College of Education, and the department of home economics. This can be done through the work in the College of Agriculture leading to the B. S. H. E. degree.

(3) Students from other colleges who wish to elect home economics courses without meeting the Science requirements may take Home Economics 115, 17, 120, 31, 134 or 135, 240, and 138.

FOODS AND NUTRITION

Assistant Professors CAMERON and NESBITT and Instructor HAGY

3. **Food Selection and Preparation.** I, II. 4 Hrs. Two lectures and two laboratories. Prereq.: Chemistry 1 or its equivalent. Miss Nesbitt and Miss Hagy

4. **Food Selection and Preparation.** II. 4 Hrs. Two lectures and two laboratories. Prereq.: Home Econ. 3 or its equivalent; Chemistry 1. Miss Nesbitt and Miss Hagy

14. **Nutrition.** II. 3 Hrs. Primarily for physical education majors. Two lectures and one laboratory. Miss Cameron and Miss Nesbitt

105. **Food Preservation.** I. 2 Hrs. One lecture and one laboratory period combined. Prereq.: Home Econ. 4 or its equivalent. Miss Nesbitt

107. **Dietetics.** I. 4 Hrs. Two lectures and two laboratories. Prereq.: Home Econ. 3 and 4, and biological science 8 hours.
Miss Cameron and Miss Nesbitt

108. **Group Feeding.** I, II. 2 Hrs. One laboratory. Prereq.: Home Econ. 3 and 4. Miss Colwell and Miss Shepherd

212. **Human Nutrition.** II. 4 Hrs. Two lectures and two laboratories. Prereq.: Chemistry 31, Home Econ. 3, 4 and 107. Miss Nesbitt

215. **Nutrition Work with Children.** I, II. 2 Hrs. One lecture and one laboratory. Prereq.: Home Econ. 3, 4, and 107. Miss Nesbitt

216. **Community Nutrition Problems.** I, II. 2 Hrs. Lecture and field work. Prereq.: Home Econ. 3, 4, 107, 215, or consent of instructor. Staff

BIOCHEMISTRY

Assistant Professor RAFFERTY

139, 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. Prereq.: Chem. 31, 36, or 233. Graduate students will be required to do one additional hour per week of assigned work for 4 hours' graduate credit. Mr. Rafferty and Staff

TEXTILES AND CLOTHING

Assistant Professor NOER and Instructor DIETRICH

17. **Textiles and Clothing.** I, II. 4 Hrs. Two lectures and two laboratories. Miss Dietrich

115. **Clothing Selection.** I, II. 2 Hrs. Two lectures. Miss Noer

120. **Selection and Construction of Clothing.** I, II. 2 Hrs. Three laboratories. Prereq.: Home Econ. 17, 31, or permission of instructor.
Miss Dietrich

225. **Advanced Clothing.** I, II. 2 Hrs. Three laboratories. Prereq.: Home Econ. 17 and 120. Miss Dietrich

226. **Advanced Textiles.** II. 2 Hrs. Two laboratories. Prereq.: Home Econ. 17, Chemistry 1 and 2. Miss Dietrich

APPLIED ARTS

Assistant Professor PALMER

31. **Applied Design.** I, II. 4 Hrs. Two lectures and two laboratories.
Miss Palmer

134. **House Decoration.** II. 3 Hrs. One lecture and two laboratories.
Miss Palmer

135. **Home Planning and Furnishing.** I, II. 4 Hrs. Suggested prereq.: Home Econ. 17 and 31. Miss Palmer

136. **Advanced Home Planning and Furnishing.** I, II. 2 Hrs. Two laboratories. Prereq.: Home Econ. 135 or consent of instructor.
Miss Palmer

HEALTH AND CHILD CARE

Professor COLWELL

240. **Child Development.** I, II. 2 Hrs. Two lectures. Prereq.: Home Econ. 4 and 107; suggested prereq.: Psychology 1. Miss Colwell

HOME MANAGEMENT

Professor COLWELL; Assistant Professor NESBITT; Instructor HAGY

251. **Mechanics of the House.** I, II. 2 Hrs. Two lectures. Prereq.: 25 hours of home economics or consent of instructor. Miss Nesbitt

252. **Home Management Laboratory.** I, II. 3 Hrs. To be preceded or accompanied by Home Econ. 251 and 254. Miss Colwell and Miss Hagy

254. **Home Management.** I, II. 3 Hrs. Three lectures. Prereq.: Home Econ. 3 and 4, 107, 31, 135, 115, 17, 120, or consent of instructor. Miss Nesbitt

HOME-ECONOMICS EDUCATION

(For courses offered, see College of Education Bulletin)

GENERAL COURSES

Professor COLWELL and STAFF

1. **Home Economics Survey.** I, II. 1 Hr. A brief survey of the scope and field of home economics education. One lecture. Miss Colwell

138. **Leisure-Time Activities (Handicraft).** I, II. 2 Hrs. Weaving, decorative stitching, knitting, crocheting, leather tooling, book-binding, sketching, basketry, needlepoint, and batik. Satisfies the co-curricular requirements for certification. Miss Dietrich and Miss Palmer

180, 181. **Special Topics in Home Economics.** I and II. 1 to 4 Hrs. ....Staff

270. **History of Home Economics.** I, II. 1 Hr. One lecture. Miss Colwell

THE COLLEGE OF ARTS AND SCIENCES

ORGANIZATION AND PURPOSE

ORGANIZATION

The College of Arts and Sciences includes a lower division and an upper division. The lower division consists of the work of the first and second years, and the upper division consists of the work of the third and fourth years.[1]

The instruction in the College of Arts and Sciences is administered through the following departments:

Botany and zoology; chemistry; classics; economics, business administration, and sociology; English language and literature; geology, mineralogy, and geography; Germanic languages and literatures; history; home economics; journalism; library science; mathematics; philosophy and psychology; physics; political science; public speaking; and romance languages and literatures.

MAIN OBJECTIVES

The curriculum of the College of Arts and Sciences has three main objectives:

1. GENERAL CULTURE. The work of the lower division is intended to complete what is usually termed "a general education." It rounds out the program of study pursued in the high school. It is based on the belief that the student should become familiar with different fields of knowledge to the end that he may select wisely the field for specialization. This general culture should include studies in English, at least one foreign language, natural science, and the social sciences. In the selection of subjects or groups in the lower division, the student should be guided somewhat by the nature of the subjects taken in the high school so that by the close of the second year the student will have a general acquaintance with various fields of knowledge.

Students who meet all the requirements of the lower division will, upon application, be awarded the junior certificate in the College of Arts and Sciences. See curriculum for lower division, page 111.

Students who are not qualified for regular college work, as well as those who do not expect to spend more than one or two years in this College and are not candidates for the junior certificate, may, with the approval of the adviser, select such lower division courses as they are qualified to pursue with profit.

2. OPPORTUNITY FOR SPECIALIZATION. The work of the upper division is intended to provide intensive study in one or two fields of knowledge. It is based on the belief that an educated man or woman should not only know the fundamentals of several branches of study but should have a rather thorough knowledge of some selected field. In the upper division, therefore, the student concentrates on a major, and one or two minors.

[1]This organization became effective July 1, 1930, but students who entered this College prior to that date may either meet the new requirments or meet the requirements in effect prior to July 1, 1930.

3. A REASONABLE FREEDOM OF ELECTIVES. The curriculum of this college is sufficiently flexible to meet the needs and tastes of individual students without, at the same time, exposing the students to the disadvantages of a free elective system.

4. SPECIAL PROVISIONS FOR THOSE WHO ARE NOT CANDIDATES FOR DEGREES. Exprience has shown that students whose average in all high school subjects was below 75%, or who ranked in the lowest one-fourth of the high-school graduating class, or those who make a low score on the intelligence test, probably will not succeed in college work. Such students generally should not be encouraged to become candidates for a degree, or perhaps not even candidates for the junior certificate, unless or until they demonstrate by work in this College that they are qualified for regular college work. Such students, as well as those who do not expect to spend more than one or two years in this College and who are not candidates for the junior certificate, may, with the approval of the adviser, elect such lower-division courses as they are qualified to pursue with profit.

ADVISERS

LOWER DIVISION. Each student in the lower division is assigned to an adviser who will assist in registration and who will have general supervision over the work of the student. Electives are chosen and changes in the program are made with the approval of the adviser. Students are urged to confer with advisers in respect to any difficulties or mal-adjustments in college life.

UPPER DIVISION. Each student in the upper division is assigned to an adviser in the department to which the major subject belongs. The program of study and all changes in class assignments must be approved by the adviser.

THE MAJOR SUBJECT

At the close of the second year the student must select as his major study one of the following subjects:

Botany
Chemistry
Classics
Economics
English
French
Geology
German
History
Home economics
Journalism
Mathematics
Philosophy
Physics
Political science
Psychology
Public speaking
Sociology
Spanish
Zoology

REQUIREMENTS FOR DEGREES

CREDIT DEFINED

The "semester-hour" is the standard for computing the amount of work required for graduation in the curricula leading to these degrees. The "hour" represents the amount of work done in one semester (18 weeks) in one recitation hour with two preparation hours a week.

CLASSIFICATION OF STUDENTS

To be classified as a freshman in the College of Arts and Sciences a student must have credit for at least 15 units of entrance requirements; to be classified as a sophomore he must have fulfilled all entrance requirements and have credit for 25 hours of college work; as a junior, 58 hours; as a senior, 92 hours.

PLAN OF MARKING

A—excellent (given only to students of superior ability and attainment)
B—good (given to those students who are well above the average but who are not in the highest group)
C—fair (average students)
D—poor but passing
E—condition[1]
F—failure
FIW—failure because of irregular withdrawal
I—incomplete[2]
W—withdrew before mid-semester
WF—withdrew failing[3]
WP—withdrew passing

HONOR POINTS

The quality of a student's work shall be indicated by *honor points* according to the following plan:

The grade of *A* carries 3 honor points per credit hour
The grade of *B* carries 2 honor points per credit hour
The grade of *C* carries 1 honor point per credit hour
The grade of *D* carries 0 honor point per credit hour

Honor points are based only on grades earned at West Virginia University and all courses taken in this institution which are offered towards credit requirements for the degree for which the student is a candidate shall be included in the computation of honor points. The student must maintain an average of one honor point per credit hour in order to be eligible for gradua-

[1]A "condition" must be removed during the next semester in which the student is registered in the University or it automatically becomes a failure.
[2]If a grade of "I" is not removed within the following semester by the satisfactory completion of the work of the course, it becomes a failure unless special permission to postpone the completion of the work is obtained from the committee on scholarship of the college in which the student is registered.
[3]Prior to mid-semester a mark of "W" will be recorded. After mid-semester the mark will be "WP" or "WF."

tion. Students who wish to be recommended for a high-school teaching certificate in West Virginia must, in addition to meeting the above standard for the bachelor's degree, have an honor point average of at least 1 in each teaching field and in education.

A student may decrease the total number of hours required for graduation by doing work of a superior quality. For each eight honor points in excess of one honor point per credit hour, the number of credit hours required for graduation shall be diminished by one. This regulation applies only to the total number of credits required. It does not apply to specific requirements for the degree.

Students are permitted to reregister in any course for which a grade of D has been received. In such cases the second grade shall replace the first and be final.

It is the student's responsibility to keep informed on his honor-point standing. This information may be secured at any time from the Dean of this College.

GENERAL REQUIREMENTS FOR ALL DEGREES

FOREIGN LANGUAGE. Fewer than 6 hours in an ancient or modern language will not be counted towards any degree, diploma, or certificate in this College unless work in the same language has been offered for entrance.

ELECTIVES. At least 6 hours must be taken in each subject offered as an elective, but no more than 9 hours in isolated courses of less than 6 hours each, elected with the approval of the adviser, may be offered.

In addition to the regular elective work in the College of Arts and Sciences which is offered by the faculties in other colleges, work not to exceed 15 hours in the College of Law, the College of Agriculture,[1] the College of Engineering and School of Mines,[2] the School of Music,[3] or the Division of Physical Education,[4] or 20 hours in the College of Education, may be included in the list of elective credits offered by students in the College of Arts and Sciences. The total number of hours elected from other colleges shall not, however, exceed 24 hours in all.

MAJOR SUBJECT. The maximum amount of credit allowed in any one subject is ordinarily 36 hours. Subject to the approval of the Scholarship Committee, the amount of work in the major may be extended, but in no case shall it exceed 54 hours in any department.

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[1]In addition to the 15 hours, the following courses in agriculture are regular electives in the College of Arts and Sciences: Farm Economics 131, Dairy Husbandry 218, and all courses in entomology, genetics, and plant pathology.

[2]The engineering and mining electives include Chemical Engineering 101, 202, 205, 206, 210, 220, and 221; Civil Engineering 1, 2, 3, 10, and 115; Electrical Engineering 100, 101, 102, 103, 200, 201, 202, 203, 205, and 206; Mechanical Engineering 20 23, 24, 26, 29, 207, 221, 222, and 226; Mechanics 101 102, 103, and 104; and Mining Engineering 106, 201, 202, 203, and 204. In addition the student may elect with the consent of his adviser, when his major is physics, Mechanical Engineering 1 and 13S and 101 to 107 (10 hrs.); and Ch. E. 110S and 111S (4 hrs.).

[3]The music electives include Theory of Music 1, 2, 72, 73, 74, 75, 76, 77, 103 to 118, 140, 141, and 179 to 183; Ensemble 153 to 156; classes in orchestra instruments 91, 92, 93, 194, 195, 196; Men's Glee Club, Women's Glee Club, and University Orchestra; and piano or voice or violin or pipe organ or band and orchestra instruments.

[4]The electives in physical education are Physical Education 76, 78, 150, 166, 167, 175, 178, 276, and 277.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

The Bachelor of Arts degree in the College of Arts and Sciences is conferred upon any student who complies with the general regulations of the University concerning degrees, satisfies all entrance, college, and departmental requirements, and completes any one of the following courses of study:

A. Regular course (128 hours)
B. Pre-Medical course (128 hours)
C. Combined courses:
   (a) Arts and Law (124 hours)
   (b) Arts and Medicine (132 hours)

Students transferring to West Virginia University from other institutions should ordinarily do so not later than the beginning of the third year. Such students must meet all the requirements of the lower division. All deficiencies for the junior certificate must be met as soon as possible after admission to this College, whereupon such student may register regularly in the upper division.

MAXIMUM AND MINIMUM WORK. A student who has made an average the preceding semester of "B" or better while carrying at least 16 hours may enroll for a maximum of 19 hours without petitioning the Scholarship Committee. A student who has made an average in the preceding semester of "C" or better while carrying at least 16 hours may without petitioning enroll for a maximum of 18 hours, 36 hours for the year, provided that no more than 34 hours are academic work.

A. REGULAR COURSE (128 HOURS)

Four years in the College of Arts and Sciences

Lower-Division Curriculum

(a) GENERAL UNIVERSITY REQUIREMENTS.
Military science[1]—4 hours.
Physical education (men)[2]—2 hours.
Physical education (women)[2]—4 hours.

(b) SCIENCE. At least 8 hours of a laboratory science chosen from the following list: botany, chemistry, geology, physics, zoology, biology.

(c) FOREIGN LANGUAGE. To be admitted to the upper division of the College of Arts and Sciences, a student must complete in college 12 semester hours in a foreign language or pass satisfactorily achievement tests in a foreign language which is taught in this University. These tests shall be administered by a Board of Examiners composed of representatives of the various language departments concerned. The degree of attainment required shall be that which may reasonably be expected of a student who

[1]Military science is required of all male students except those who at the time of matriculation are 23 years of age or have completed no less than 58 hours of work, and all who have credit for 4 hours of military science or 1 unit of entrance credit in military academy. Students must register for military science upon their entrance into the University and continue in the course until the full requirement has been met or until a regular exemption card is filed in the Registrar's office.

[2]Two hours of physical education for men, to be taken during the first year of residence, and four hours of physical education for women, to be taken during the first and second years in residence, are required for graduation of students presenting fewer than 58 semester hours, unless previous credit has been allowed.

has done acceptably 12 semester hours of the language in college, four units in high school, or two units in high school and six semester hours in college.[3]

(d) ENGLISH COMPOSITION. Ordinarily 6 hours of English composition (English 1 and 2) will be required of all freshmen. In case a freshman is not qualified to meet the requirements in English 1, as shown by placement or other tests, he (or she) will be assigned to English 1C, which carries 3 hours of University credit. Upon the successful completion of the work in English 1C the student will register for the regular work in English 1.

(e) ADDITIONAL. At least 6 hours in each of three of the following:

(1) English (additional to d), journalism, or public speaking.
(2) Foreign language (additional to c).
(3) Mathematics.
(4) History.
(5) Political science.
(6) Economics or sociology.
(7) Philosophy and psychology.
(8) Home economics.
(9) Science (additional to b).

(f) ELECTIVES, under the supervision of the adviser, to make a total of 64 hours. Ordinarily freshmen should register for required courses. Electives should be used in the second year chiefly in meeting the preliminary requirements of the departments in which the student expects to do the work of the major and minor (or minors) in the upper division.

Upper-Division Curriculum

1. A major sequence of 18 to 24 hours of upper-division courses, preceded by the proper lower-division courses prescribed as preparation for the major. This work should represent a coherent and progressive sequence of courses as outlined in the departmental announcements. The major subject will be selected when the student registers in the upper division, but the student must plan the work in the lower division in such way as will meet the departmental requirements for the major and minor.

2. A minor sequence of 9 to 12 hours of upper-division courses, preceded by the proper lower-division courses, in some department closely related to the major department. At the option of the major department, a second minor of 6 hours may be required in a second department closely related to the major department.

3. Electives, under the supervision of the departmental adviser, to make a total of 128 hours.[1] At least 52 of the 64 hours in the upper division must be selected from upper-division courses. A departmental adviser may permit a student in the upper division to elect lower-division courses to an amount not exceeding 12 hours when such action will be an advantage to the student in connection with the major or minor sequence, but honor points will count only at the rate of 1 honor point per credit hour.

[3]These examinations do not carry college credit but merely exempt the student from part or all of the requirement that 12 hours of language in college are required for entrance into the upper division.

[1]A student may decrease the total number of hours required for graduation by doing work of superior quality. For details of this plan see page 62.

B. PRE-MEDICAL CURRICULA

The following sequence of courses is worked out for the general guidance of students who are preparing for the study of Medicine. It includes all the required subjects. While the pre-medical student is meeting the minimum requirements of the School of Medicine as stated in the General Catalog, the medical faculty prefers that he use his elective hours to secure a broad, general training rather than to secure a large number of credits in any one special field. Leading medical educators in the United States today also are definitely in favor of a good general training rather than extensive specialization in the so-called pre-medical sciences.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Chemistry 3 (4); Biology 1 or Zoology 1 (4); modern language (3); military science (1); physical education (1). Total, 16 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Chemistry 4 (4); Zoology 2 (4); modern language (3); military science (1); physical education (1). Total, 16 hrs.

SECOND YEAR, FIRST SEMESTER: English 13 (2); Physics 1 and 3 (4); Chemistry 5 (4); Zoology 207 or elective (3); modern language (3); military science (1). Total, 17 hrs.

SECOND YEAR, SECOND SEMESTER: English 14 (2); Physics 2 and 4 (4); Chemistry 15 (3); Psychology 1 (3); modern language (3); military science (1); elective (1). Total, 17 hrs.

THIRD YEAR: Chemistry 163 (3) and 136 (6); Zoology 231 (4); zoology group (2); cultural group* (12); related science group* or modern language (6); elective (1). Total, 34 hrs.

FOURTH YEAR: Chemistry or zoology (4 to 10); cultural group* (12); related science group* (6); modern language or electives as needed to complete 32 hrs.

C. COMBINED COURSES

ARTS AND MEDICINE

COURSE A. Students receive the Bachelor of Arts Degree upon the completion of four years of pre-medical work (128 hours), and the Bachelor of Science degree at the completion of two years of medicine.

COURSE B. Students who enter the School of Medicine after the completion of the first three years (100 hours) of the pre-medical curriculum receive the Bachelor of Arts degree upon the completion of the first year of medicine, and the Bachelor of Science degree upon the completion of the second year of medicine.

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*Cultural group—To be chosen from English, economics, sociology, history, political science, philosophy, public speaking, foreign language, education.

*Related science group—To be chosen from biology, botany, physics, mathematics, geology, psychology, genetics, pharmacy, physiology.

COURSE C. This course, consisting of 66 hours, meets the needs of students who desire to enter schools of medicine which prescribe for admission only two years of College work.

Students who are working toward the combined A. B. degree described in Course B above while taking the courses in the School of Medicine must also be registered in the College of Arts and Sciences.

Modern Foreign Language Requirements:

Course A requires a reading knowledge of both French and German, with a minimum requirement of 18 hours. Courses B and C require a reading knowledge of either German or French, with a requirement of 12 hours, which may be divided between the two languages by students who present two units of either language for entrance.

ARTS AND LAW

Three years (96 hours) in the College of Arts and Sciences, and one year (28 hours) in the College of Law

A prelegal course has two main objectives. The first is to enable the student to acquire a general cultural background, which is in harmony with the chief purpose of the College of Arts and Sciences. The second is to help the student to secure a more specialized background for the legal course that is to follow.

These objectives can be attained more effectively by taking the regular four-year Arts and Sciences course, during the last two years of which the student may choose his major and minor with particular reference to his legal work. In addition to securing the Bachelor of Arts degree, it will qualify him for admission to almost any law school.

To enable students to receive the degree of Bachelor of Arts and Bachelor of Laws in a shorter period of time, a special course has been arranged by which the student may complete the required studies in the College of Arts and Sciences in three years, and, after passing the entire first year of work in the College of Law, be awarded the degree of Bachelor of Arts. This course satisfies the entrance requirements to the College of Law, but permits less freedom in choosing electives. The student should confer with the Pre-Law adviser as soon as he enters the University. The following schedule is suggested as being adapted to the above course:

FIRST YEAR, FIRST SEMESTER: English 1 (3); botany, chemistry, geology, physics, zoology, or biology (4); French, German, or Latin[1] (3); History 1 (3); military science (1); physical education (1). Total, 15 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); botany, chemistry, geology, physics, zoology, or biology (4); French, German, or Latin[1] (3); History 2 (3); military science (1); physical education (1). Total, 15 hrs.

SECOND YEAR, FIRST SEMESTER: English 3 (3); language (3); History 52 (3); Political Science 4 (3); electives (lower-division courses should be taken in the departments in which the student may wish to do upper-division work) (3); military science (1). Total, 16 hrs.

[1]Latin 1 and 2 are recommended for students not having entrance credit of 2 units in this subject.

SECOND YEAR, SECOND SEMESTER: English (3); language (3) (if 10 hrs. of language have been passed the first year, an elective may be substituted); History 53 (3); Political Science 5 (3); electives (3); military science (1). Total, 16 hrs.

THIRD YEAR: pre-law major (12); pre-law minor (9); electives (9 to 15). Total, 32 or more hours.

FOURTH YEAR: 28 hrs. in the College of Law.

PRE-PROFESSIONAL COURSES

Not leading to degrees in the College of Arts and Sciences

(A) PRE-DENTAL COURSES

The following courses are planned for students preparing for the study of dentistry. In case a student expects to enter a certain school of dentistry these courses may be changed to suit his needs.

(A) ONE-YEAR COURSE

A course preparing for schools of dentistry requiring for entrance one year of pre-dental work. This course has the bare minimum requirements and little of cultural value.

FIRST SEMESTER: English 1 (3); Chemistry 3 (4); Biology 1 (4); Physics 1 and 3 (4); military science (1); physical education (1). Total, 17 hrs.

SECOND SEMESTER: English 2 (3); Chemistry 4 (4); Zoology 3 (4); Physics 2 and 4 (4); military science (1); physical education (1). Total, 17 hrs.

(B) TWO-YEAR COURSE

A course preparing for schools of dentistry requiring for entrance two years of pre-dental work. This course has, in addition to the minimum requirements, certain courses of general cultural value.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Chemistry 3 (4); Biology 1 (4); German or French (3); military science (1); physical education (1). Total, 16 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Chemistry 4 (4); Zoology 3 (4); German or French (3); military science (1); physical education (1). Total, 16 hrs.

SECOND YEAR, FIRST SEMESTER: Physics 1 and 3 (4); Chemistry 15 (3) and 63 (3); Psychology 1 (3) or Zoology 231 (4); German, French, or English 3 (3); military science (1). Total, 17 or 18 hrs.

SECOND YEAR, SECOND SEMESTER: Physics 2 and 4 (4); Chemistry 36 (6); Psychology 1 or Zoology 210 (3); German, French, or English 4 (3); military science (1). Total, 17 hrs.

(C) THREE-YEAR COURSE

A course preparing for schools of dentistry requiring for entrance three years of pre-dental work. The first two years (67 hours) of this course are identical with course B except that, during the second year, French or German is taken instead of English 3 and 4.

THIRD YEAR: English 3 (3) and 4 (3); economics or sociology or history or political science or modern language (18); Chemistry **107** (2) and 238 (5); physics or psychology or elective (3). Total, 34 hrs.

(B) PRE-NURSING CURRICULUM

The following arrangement of courses is worked out for the general guidance of students who are preparing for the profession of nursing. This curriculum includes all subjects generally required by professional schools of nursing. The tendency in nursing education is toward the establishment of a requirement of at least two years of college work preparatory to entering the school of nursing. Students are advised to use their elective hours in the direction of a broad, general education and, if possible, to complete the requirements for the A. B. degree.

FIRST YEAR, FIRST SEMESTER: English **1** (3); Chemistry **3** (4); Zoology **1** (4); language (or elective) (3); physical education (1). Total, 15 hrs.

FIRST YEAR, SECOND SEMESTER: English **2** (3); Chemistry **4** (4); Zoology **2** (4); language (or elective) (3); physical education (1); elective (3). Total, 15 to 18 hrs.

SECOND YEAR, FIRST SEMESTER: English literature (3); language (or elective) (3); Sociology **1** (3); Psychology **1** (3); physical education (1); elective (3). Total, 16 hrs.

SECOND YEAR, SECOND SEMESTER: English literature (3); language (or elective) (3); Sociology **3** (3); Psychology **10** (3); physical education (1); elective (5). Total, 18 hrs.

THIRD AND FOURTH YEARS

Students are advised to select psychology, sociology, or zoology as a major subject and one other subject in this group as a minor. If possible the student should select the School of Nursing which she proposes to enter and use her electives in meeting the pre-professional requirements or recommendations of that particular school.

(C) PRE-EDUCATION

Candidates for the degree of Bachelor of Science in Education are registered in the College of Arts and Sciences until they have completed fifty-eight hours or more of academic work in the lower division of the College. They are then transferred to the College of Education. During the Pre-Education period students are advised to complete as many as possible of the general courses required by the College of Education, which are as follows:

English (8) and public speaking (2), 10 hrs.; history, 6 hrs.; political science (2-5), sociology (2-5), and economics (2-5), 9 hrs.; science, 6 hrs.; physical education (4) and health (2), 6 hrs.; education, 20 hrs.; preparation for directing one co-curricular activity, 2 hrs.

Upon the successful completion of the entire 64 hours of work in the lower division, pre-education students are eligible for the Junior Certificate of the College of Arts and Sciences.

TEACHING CERTIFICATES

The College of Education is authorized by the Board of Governors to recommend all applicants for teaching certificates.

Teaching certificates may be secured by students registered in the College of Arts and Sciences as well as by students registered in the College of Education, provided they meet the requirements for teaching subjects as outlined by the College of Education (or The State Department of Education).

For specific requirements in regard to teaching fields see the Bulletin of the College of Education.

Candidates for the A. B. degree who wish to qualify for teaching certificates should indicate this fact to their adviser and plan their entire course with this in view. *Unless this is done by the end of the freshman year, students may encounter difficulties in qualifying for the certificate by the time they receive the degree.*

EXTENSION COURSES

As a part of the University Extension Service the College of Arts and Sciences and the College of Education from time to time have conducted at several centers in various parts of the State extension courses for which regular college credit has been given. The work given in the extension courses corresponds in every particular, as to class requirements and credits, with that given in similar courses on the campus. Similar extension courses will be provided in other parts of the State when the facilities of the University will permit.

The giving of extension courses is subject to the following conditions: (1) Courses will not be organized at any place unless the demand is sufficient to justify it. (2) Courses offered by resident instructors will be given in Morgantown and in nearby places easy of access, generally on Friday afternoons and Saturdays. (3) Regular extension instructors will offer courses only in such places as can be reached from their headquarters.

DEPARTMENTAL REQUIREMENTS

COURSES OF INSTRUCTION

BOTANY AND ZOOLOGY

CURRICULUM FOR BOTANY MAJORS

Courses in chemistry, physics, zoology, or geology may be selected by those botany majors who wish to minor in one of these fields (64 hours required in each division).

NOTE: Credit hours are shown in parentheses after course designations.

Lower Division

English composition (6); German (12); Botany 1 and 2 (or Biology 1 and Botany 2) (8); French (6); psychology (6); English literature (6); military science (4); physical education (2). Total required, 50 hrs.

Electives: Chemistry 1 and 2 (8); Botany 30 (4); Zoology 1 and 2 (8); Botany 31 (4). Total electives, 24 hrs.

Upper Division

Physics 1, 2, 3, and 4 (8); education (for teacher's certificate) (20); geology (6); Botany 211 (4) and 212 (4); 221 (4); 230 (4); 234 (4); 254 and 255 (2). Total required, 56 hrs.

Electives: Bacteriology 141 (4); genetics (3); Botany 222 (4). Total electives, 11 hrs.

CURRICULUM FOR ZOOLOGY MAJORS

Lower Division

FIRST YEAR: Biology 1 or Zoology 1 (4); Zoology 2 (4); Chemistry 1 or 3 (4), 2 or 4 (4); English 1 (3) and 2 (3); foreign language (6); physical education (2); military science (2). Total, 32 hrs.

SECOND YEAR: Botany 1 (4) and 2 (4); Physics 1, 2, 3, and 4 (8); foreign language (6); English 3, 4, or 65 (3); Public Speaking 3 or 11 (3); History 1 and 2 (6); military science or physical education (2). Total, 36 hrs.

Upper Division

1. 18 to 24 hours selected from the following courses accepted in the major subject: Animal Pathology 102 and 206; Cytology 210; Entomology 102, 103, 104; Physiology 51 or 151; Genetics 221; Zoology 116, 207, 210, 231, 234, 235, 236, 237, 240, 250-255, 261S.
2. A minor sequence of 9 to 12 hours of upper division courses in some department closely related to the work of the major department.
3. Electives to complete a total for the four years of 128 hours.

Candidates for the A. B. degree who expect to qualify for the teaching certificate should confer with an adviser in the College of Education. They may carry as much as 18 hours each semester. See *State Teachers' Training and Certification Regulations* on page 159.

BOTANY AND ZOOLOGY

Professors REESE, SPANGLER, and STRAUSBAUGH; Associate Professor TAYLOR; Assistant Professors CAMERON, CORE, and GRIBBLE; Instructors AMMONS and BROOKS; Graduate Assistants HAMSTEAD, MARGOLIN, and HANDLAN

BIOLOGY

1. General Biology. I. 4 Hrs. Basic biological principals; the study of plant forms up to the seed plants and of animal forms up to the vertebrates, thus leading to Botany 2 and Zoology 2. Staff

101. Nature Club Leadership. II. 2 Hrs. For teachers who desire to prepare for a co-curricular activity in biology, birds, mammals, insects, reptiles, common plants, forests, conservation, and their respective applications. Mr. Brooks

Graduate Division

350, 351, 352, 353. Seminar. I and II. 1 Hr. per semester.
Mr. Orton, Mr. Cartledge, Mr. Reese, and Mr. Strausbaugh

BOTANY

Lower Division

1, 2. General Botany. I and II. 4 Hrs. per semester.
Mr. Strausbaugh, Mr. Spangler, Miss Ammons, and Mr. Core

30 or 130. Systematic Botany. II. 4 Hrs. Identification of seed plants and a study of their classification. Mr. Core

31 or 131. Plant Ecology. I. 4 Hrs. Environmental relationships of plants. Mr. Strausbaugh

Upper Division

211, 212. Plant Morphology. I, II. 4 Hrs. Development and structure of plants. Mr. Spangler

221. Plant Physiology. I. 4 Hrs. Functions of plants. Prereq.: Biology 1 or Botany 1 and 2, and a general course in chemistry. Mr. Strausbaugh

222. Advanced Plant Physiology. II. 4 Hrs. Prereq.: Botany 221; also course in general physics and organic chemistry. Mr. Strausbaugh

230, 231. Advanced Systematic Botany. I and II. 1 to 6 Hrs. (maximum). Choice of work in any groups of the plant kingdom. Staff

234. Experimental Ecology. II. 4 Hrs. Prereq.: Biology 1 and Botany 131. Mr. Strausbaugh

235S. Field Studies in Botany. S1. 6 Hrs. Essentially physiographic ecology, planned for botany majors and to meet the needs of those who

intend to teach or are teaching botany. The studies will be conducted in various interesting regions of the state and the entire time will be spent in the field. Mr. Strausbaugh

254, 255. **Seminar.** I and II. 1 Hr. per semester. Current literature and history of botany. Staff

Graduate Division

380, 381, 382, 383, and 384. **Research.** I and II. 1 to 6 Hrs. Staff

For courses in plant pathology see page 99.

ZOOLOGY

Lower Division

1. **Invertebrate Zoology.** I. 4 Hrs. Mr. Reese and Staff

2. **Vertebrate Zoology.** II. 4 Hrs. Prereq.: Biology 1 or Zoology 1. Mr. Reese and Staff

5 or 105. **Ornithology.** II. 2 Hrs. Field and laboratory studies on the identification, migration, protection, nesting, and food habits of birds. Mr. Brooks

16 or 116. **Economic Zoology.** II. 2 Hrs. Ways in which animals are useful or harmful to man. Mr. Reese

51 or 151. **Human Physiology.** II. 4 Hrs. Miss Cameron

Upper Division

118. **Methods of Zoology.** II. 3 Hrs. Collecting, preserving, injecting, making microscopic preparations, etc. Prereq.: Zoology 2 or equivalent. Primarily for zoology majors. Mr. Taylor

207. **Vertebrate Embryology.** I. 3 Hrs. An introductory study of the development of vertebrates, based chiefly on the frog, fowl, and mammal. Prereq.: Zoology 2. Mr. Reese

210. **Principles of Evolution.** II. 3 Hrs. Mr. Reese

231. **Comparative Anatomy.** I. 4 Hrs. Organs and systems of various vertebrates, together with other facts of interest concerning these animals. Prereq.: Zoology 2. Mr. Gribble

234. **Histology.** I. 2 Hrs. The microscopic study of the tissues and organs of vertebrates. Not open to pre-medical students. Prereq.: Zoology 2. Mr. Taylor

235. **Advanced Invertebrate Zoology.** II. 3 Hrs. Prereq.: Zoology 2. Mr. Taylor

236. **Animal Behavior.** I. 3 Hrs. Prereq.: Zoology 2. Alternates with Zoology 237. Mr. Taylor

237. **Animal Ecology.** I. 3 Hrs. Prereq.: Zoology 2. Alternates with Zoology 236. Mr. Taylor

240. **Seminar.** I and II. 1 Hr. Current Literature. Mr. Reese and Mr. Taylor

250, 251, 252, 253, 254, 255. **Advanced Zoology.** I and II. 1 to 4 Hrs. Courses in zoology adapted, as far as possible, to needs of individual students. Staff

261S. Field Zoology. SI. 6 Hrs. Primarily for zoology majors and for those who teach or intend to teach zoology. This course aims to familiarize the student with the animal life of the state in its natural surroundings and includes the collection, identification and classification, and study of habits of the various forms found in this region. Prereq.: Zoology 2 or equivalent. Mr. Taylor

Graduate Division

380, 381, 382, 383, 384. Research. I and II. 1 to 6 Hrs. Staff

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For courses in entomology, genetics, and animal pathology see the General Catalogue, page 94 ff.

CHEMISTRY

Chemistry 1, 2, and 9; or Chemistry 3 and 4 are prerequisite to all courses in chemistry. Chemistry 5, 6, 233, 238, 260, and 261 are required of students whose major is chemistry. Exceptions are sometimes made for students entering with advanced standing.

Students entering the University with the intention of studying chemistry as a profession leading to a degree in the College of Arts and Sciences, with major in chemistry, should take Mathematics 3 and 4 and Chemistry 3 during the first semester of their first year.

A deposit is required of all students who take laboratory courses.

CHEMISTRY[2]

Professors CLARK, JACOBSON, SAMUEL MORRIS, HUBERT HILL, DUSTMAN, and DAVIES; Associate Professors DEATRICK, COLLETT, and LAZZELL; Assistant Professor GIBSON

Lower Division

1. **General Chemistry.**[3] I, II. 4 Hrs. Recommended for students in the College of Arts and Sciences and the College of Education. Primarily for freshmen. Mr. Morris

2. **General Chemistry.** I, II. 4 Hrs. Recommended for students in the College of Arts and Sciences and the College of Education. Primarily for freshmen. Prereq.: Chemistry 1, or equivalent. Staff

3. **Inorganic Chemistry.**[1] I, II. 4 Hrs. Required of students in the College of Agriculture, including home economics, the College of Engineering, pre-medical students, and pharmacy students. Primarily for freshmen. Mr. Morris

4. **Inorganic Chemistry.**[1] I, II. 4 Hrs. Required of students of the College of Agriculture, College of Engineering, pre-medical students, and pharmacy students. Primarily for freshmen. Prereq.: Chemistry 3. Staff

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[1]Students entering with the idea of majoring in chemistry may take Chemistry 3 and 4 instead of Chemistry 1, 2, and 9.

[2]Chemistry 1, 2, and 9, or Chemistry 3 and 4 are prerequisite to all other courses in chemistry. Three-year and four-year pre-medical students are referred to the General Catalog for outline of required courses and for courses in physiological and pharmaceutical chemistry. A deposit is required of all students who take laboratory courses.

[3]Students desiring to take Chemistry 1 in the second semester may substitute Chemistry 3 if Chemistry 1 is not offered.

5 or 105. **Qualitative Analysis.** I. 4 Hrs. Chemistry 9 may either precede or accompany this course. Required of students whose major is chemistry, students in chemical engineering, and pharmacy students. Two lectures and two three-hour laboratory periods. Prereq.: Chemistry 1, 2, and 9; or Chemistry 3 and 4. Mr. Hill and Mr. Gibson

6 or 106. **Quantitative Analysis.** II. 3 to 5 Hrs. Chemistry 5 should precede this course wherever possible. Required of students whose major is chemistry, and of students in chemical engineering and mining engineering. Prereq.: Chemistry 1, 2, and 9, or 3 and 4. Mr. Hill and Mr. Gibson

9. **Inorganic Chemistry.** I. 2 Hrs. Required of students who have taken Chemistry 1 and 2 and who desire further work in chemistry. Mr. Morris

10. **Quantitative Analysis.** I. 2 Hrs. Primarily for engineering students. Prereq.: Chemistry 3 and 4. Mr. Hill and Mr. Gibson

15 or 115. **Quantitative Analysis.** I, II. 3 Hrs. For pre-medical students Chemistry 9 may accompany this course. Prereq.: Chemistry 3 and 4, or 1, 2, and 9. Mr. Hill and Mr. Gibson

31 or 131. **Organic Chemistry.** I. 4 Hrs. For students in agriculture and home economics. Chemistry 9 may accompany this course. Prereq.: Chemistry 4 or 2 and 9. Mr. Dustman

36 or 136. **Organic Chemistry.** II. 6 Hrs. Required of pre-medical and pharmacy students. Prereq.: for pre-medical students: Chemistry 15 and 63. Prereq.: for pharmacy students: Chemistry 6. Mr. Lazzell

63 or 163. **Physical Chemistry.** I. 3 Hrs. Required of pre-medical students. Chemistry 9 may accompany this course. Prereq.: Chemistry 4, or Chemistry 2 and 9. Mr. Davies

Upper Division

107. **Quantitative Analysis.** I, II. 2 Hrs. Continuation of Chemistry 15 and 115. Mr. Hill and Mr. Gibson

139, 239. **General Biochemistry.** II. 4 Hrs. Fundamental biochemistry of both animals and plants. Prereq.: Chemistry 31, 36, or 233. Two lectures and two laboratories. Graduate students will be required to do one additional hour per week of assigned work for 4 hours credit. Mr. Rafferty and Staff

141. **Assigned Topics.** I. 1 to 5 Hrs. Open by special permission to undergraduates who have already completed 36 hours of chemistry. An introduction to research. Staff

142. **Assigned Topics.** II. 1 to 5 Hrs. Staff

208. **Advanced Quantitative Analysis.** I. 3 Hrs. Prereq.: Chemistry 6, Physics 3 and 4, and Mathematics 5. Mr. Jacobson

211. **Synthetic Inorganic Chemistry.** I, II. 3 Hrs. Seniors by permission. Mr. Morris

214. **Organic Qualitative Analysis.** I or II. 3 Hrs. Prereq.: Chemistry 238. Mr. Jacobson

†218. **Dairy Chemistry.** I. 3 Hrs. For students in the College of Agriculture. Prereq.: for undergraduates, Chemistry 31; for graduates, Chemistry 6 or 15, or Chemistry 31 or 233. Mr. Dustman

222. **Food Analysis.** II. 3 Hrs. Primarily for agriculture and home economics students. Prereq.: Chemistry 6 or 15, and Chemistry 31 or equivalent. Offered every second or third year, depending on demand. Mr. Jacobson

233. **Organic Chemistry.** I. 5 Hrs. Required of students who major in chemistry, of students in chemical and mining engineering. Prereq.: Chemistry 6. Mr. Clark and Mr. Lazzell

238. **Organic Chemistry.** II. 4 or 5 Hrs. Prereq.: Chemistry 233. Mr. Clark and Mr. Lazzell

247. **Stereochemistry.** I. 2 Hrs. Open to seniors. Prereq.: Chemistry 238. Mrs. Deatrick

251. **Industrial Inorganic Chemistry.** I. 3 Hrs. Mr. Clark

252. **Industrial Organic Chemistry.** II. 3 Hrs. Mr. Clark

260. **Physical Chemistry.** I. 3 to 5 Hrs. Required of chemistry majors and chemical engineering students, the latter for 3 hours' credit. Prereq.: Chemistry 233, Physics 4, and Mathematics 5. Mr. Collett

261. **Physical Chemistry.** II. 3 to 5 Hrs. Required of chemical engineering students and chemistry majors. Prereq.: Chemistry 260. Mr. Collett

262. **The Chemistry of Colloids.** II. 4 Hrs. Required of four-year premedical students. Mr. Davies

274. **History of Chemistry.** II. 2 Hrs. Open to seniors. Prereq.: Chemistry 6. Mr. Hill and Mrs. Deatrick

277. **Synthetic Drugs.** I or II. 2 Hrs. Mr. Lazzell

283. **Advanced Quantitative Analysis.** II. 3 Hrs. Prereq.: Chemistry 5, 238, 261. Offered every second or third year. Mr. Hill

Graduate Division

†339. **Dyes and Dye Intermediates.** I. 3 Hrs. Prereq.: Chemistry 343, unless by special permission. Offered every third year. Mr. Clark

†340. **Dyes and Dye Intermediates.** II. 3 Hrs. Prereq.: Chemistry 339. Mr. Clark

343. **Advanced Organic Chemistry.** I. 3 Hrs. Prereq.: Chemistry 238 or equivalent. Mr. Lazzell

345. **Theories of Organic Chemistry.** II. 2 Hrs. Prereq.: Chemistry 343. Mr. Lazzell

367. **Advanced Physical Chemistry.** I. 3 Hrs. Prereq.: Chemistry 261. Mr. Davies

368. **Advanced Physical Chemistry.** II. 3 Hrs. Prereq.: Chemistry 367. Mr. Davies

†Omitted, 1937-38.

380. **Electrochemistry.** I, II. 3 Hrs. Prereq.: Chemistry 238 and 261. Mr. Collett

389. **Chemical Thermodynamics.** I. 2 Hrs. Prereq.: Chemistry 261 and Mathematics 208. Mr. Gibson

390. **Chemical Thermodynamics.** II. 2 Hrs. Prereq.: Chemistry 389. Mr. Gibson

391, 392. **Journal Meeting and Seminar.** I and II. 1 Hr. per semester. Required of students working for graduate degrees with major in chemistry. Recommended as a minor for students from other departments. Staff

395, 396. **Special Topics.** I and II. 1 to 3 Hrs. per semester. Chemistry of the carbohydrates, organic nitrogen compounds, actino chemistry, the phase rule, study of chemical literature as preparation for research, chemical microscopy and chemical crystallography, valence and molecular structure, and advanced organic chemistry are suggested topics. Staff

397, 398. **Research.** I and II. 1 to 6 Hrs. per semester. 6 Hrs. requirement for the master's degree. More than 6 Hrs. each semester may be carried by candidates for a higher degree. Staff

CLASSICS

The department of classics offers courses in the Greek and Latin languages and in classical civilization. Courses in the department are intended not only to give students a thorough knowledge of the Greek and Latin languages and literature, but also to acquaint them with the classical culture in general. A student with major in Latin should plan to include at least 6 hours of Greek in his course, perferably in the sophomore year.

Courses suggested for classics majors with English as a second teaching field for certification in West Virginia:

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3) and 3[1] (3); Latin (according to preparation) (3); laboratory science[2] (4); physical education (1); elective (2). Total, 16 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3) and 4[1] (3); Latin (3); laboratory science[2] (4); physical education (1); elective (2). Total 16 hrs.

SECOND YEAR, FIRST SEMESTER: English 65[1] (3); Latin (3); Greek 1 (3); sociology or economics (3); physical education (1); elective (3). Total, 16 hrs.

SECOND YEAR, SECOND SEMESTER: Journalism 15[1] (3); Latin (3); Greek 2 (3); sociology or economics (3); public speaking[1] (3); elective (2). Total, 17 hrs.

[1]Students wishing to offer social science for certification may substitute history for this course.

[2]Students who wish to have social studies as the second teaching field may elect geology for the laboratory science.

CLASSICS

Professors BROUZAS and TROTTER

LATIN

Lower Division

1. **Elementary Latin.** I. 3 Hrs. An intensive course in the elements of the Latin language, consisting of the completion of a standard beginner's book and of a simple elementary reader. Mr. Trotter

2. **Elementary Latin.** II. 3 Hrs. A continuation of Latin 1, consisting of the study of a standard second-year book. Mr. Trotter

3. **Caesar.** I. 3 Hrs. Selections from the Gallic Wars. Prereq.: Latin 1 and 2, or equivalent. Mr. Trotter

4. **Cicero's Orations.** I. 3 Hrs. Prereq.: Latin 3, or 2 units of high-school Latin. Mr. Trotter and Mr. Brouzas

5. **Latin for Law Students: Selection from Legal Latin and the Institutes of Justinian.** II. 2 Hrs. Prereq.: Latin 3, or 2 units of high-school Latin. Mr. Brouzas

6. **Vergil's Aeneid.** II. 3 Hrs. Prereq.: Latin 3 and 4, or 3 units of high-school Latin. Mr. Trotter

†12. **Selections from Roman Prose.** I. 3 Hrs. Selections from Roman prose literature from Cato to the end of the Silver Latin period. Prereq.: Latin 4 and 6. Mr. Brouzas

†14. **Roman Comedy.** I. 3 Hrs. Plautus, Captivi, or Menaechmi; Terence, Adelphoe, or Andria. Prereq.: Latin 4 and 6, or 4 units of high-school Latin. Mr. Brouzas

21. **Roman Letter Writing.** II. 3 Hrs. Selections from the Letters of Cicero, Pliny, Marcus Aurelius, and Fronto. Prereq.: Latin 4 and 6, or 4 units of high-school Latin. Mr. Brouzas

†22. **Selections from Roman Poetry.** I. 3 Hrs. Selections from the elegiac, lyric, and iambic poets and from Martial's epigrams. Prereq.: Latin 4 and 6, or equivalent. Mr. Brouzas

†23. **Livy and Cicero.** II. 3 Hrs. Selection from Livy books 21 and 22; Cicero's *De Senectute* or *De Amicitia*. Prereq.: Latin 14 and 21, or equivalent. Mr. Trotter

24. **The Lyric and Bucolic Poets.** II. 3 Hrs. Selections from Horace's Odes and Epodes; from Catullus and other poets; selections from the Bucolics of Vergil and Calpurnius. Mr. Brouzas

†25. **Latin Composition.** II. 2 Hrs. A review of the principles and syntax of the Latin language, and practice in writing simple Latin. Prereq.: Latin 14 and 21, or equivalent. Mr. Brouzas

Upper Division

†130. **Leadership in Classical Club.** II. 2 Hrs. Materials for enriching, vivifying, and making Latin concrete; Latin posters, scrap books, Latin derivatives in English and modern languages, Latin playlets, Latin mottoes, proverbs, mythological allusions, etc. Prereq.: Four

†Omitted, 1937-38.

years of high-school Latin or twelve hours of Latin taken in college. Offered every other year. Approved for high-school certification in co-curricular activity. Mr. Brouzas

201. **The Story and Novel.** I. 3 Hrs. The story and novel from Homer to Apuleius. Select readings from Petronius and Apuleius. Prereq.: Latin 12, 14, 21, 22, or equivalent. Mr. Brouzas

†202. **Drama.** II. 3 Hrs. The ancient drama, its origin, and development. Select dramas. Prereq.: Latin 12, 14, 21, 22, or equivalent. Mr. Brouzas

203. **Roman Oratory.** II. 2 Hrs. Selections from Cicero's works on oratory and from Quintilian. Select orations of Cicero. Prereq.: Latin 12, 14, 21, 22, and 24, or equivalent. Mr. Brouzas

227. **Vulgar Latin—Prose and Verse.** I. 3 Hrs. Selections from old Latin literature and from late and mediaeval Latin writers. Lectures on the history of the Latin language and the formation of the Romance languages. Prereq.: Latin 12, 14, 21, and 24, or equivalent. Mr. Brouzas

231. **Satire.** II. 2 Hrs. Horace, Satires and Epistles; selections from Juvenal and Persius. Prereq.: Latin 12, 14, 21, and 22, or equivalent. Mr. Brouzas

†234. **History.** I. 3 Hrs. Selections from Livy, and Tacitus, Agricola, or Annals; Suetonius, Life of Julius or Augustus, Sallust, Catiline. Prereq.: Latin 12, 21, and 24, or equivalent. Mr. Brouzas

235. **Epic.** I. 3 Hrs. Vergil's *Aeneid* and the later Epic. Prereq.: Latin 12, 22, and 24, or equivalent. Mr. Brouzas

†236. **Philosophy.** II. 3 Hrs. Cicero's *Tusculan Disputations* or *De Officiis;* Seneca's *Dialogues* and *Epistles.* Prereq.: Latin 12, 21, 22, and 24, or equivalent. Mr. Brouzas

Graduate Division

381, 382. **Seminar.** I and II. 2 Hrs. per semester. Research course. Mr. Brouzas

CLASSICAL CIVILIZATION[1]

Upper Division

237. **Greek and Roman Religion and Art.** I. 3 Hrs. A study of the Greek and Roman religious ideas and myths, with particular emphasis on their influence upon the art and literature of the ancient and the modern world. Mr. Brouzas

239. **Greek and Roman Life and Thought.** I. 3 Hrs. A survey of Greek and Roman culture and thought as reflected in classical literature. Prereq.: Greek 1 and 2, Latin 12 and 22, or equivalent. Mr. Brouzas

GREEK

Lower Division

†1. **Elementary Greek.** I. 3 Hrs. A course in the elements of the Greek language. Mr. Brouzas

†2. **Selections from Greek Literature.** II. 3 Hrs. Mr. Brouzas

[1]These courses are offered as being of cultural value to all students. They present a picture of a cross-section of the Greek and Roman society, life, manners, thought, literature, art, science, and law. The study of the influence of classical antiquity upon the subsequent periods prepares one for a better appreciation of modern civilization. Each course may be taken separately, if so desired.

†Omitted, 1937-38.

ECONOMICS, BUSINESS ADMINISTRATION, AND SOCIOLOGY

A minimum of 24 hours in this department is required of students who elect economics or sociology as a major subject.

Economics 1 and 2 are prerequisites for all upper-division courses in economics except Economics 103 and 110. Political Science 4 and 5, and 6 hours to be selected from Economics 21, Sociology 1, and History 1, 2, 52, and 53, are lower-division requirements.

NOTE: Credit hours are shown in parentheses after course designations.

COURSES SUGGESTED FOR MAJORS IN ECONOMICS

Lower Division

FIRST YEAR: English composition (6); foreign language (6); biology, physics, chemistry, or geology (8); Econ. 21 (3); History 1 and 2 (6); military science (2); physical education (2). Total, 33 hrs.

SECOND YEAR: Economics 1 and 2 (6); Eng. 4 (3); foreign language (6); Political Science 4 and 5 (6); Sociology 1 (3); History 52 and 53 (6); military science or physical education (2). Total, 32 hrs.

Upper Division

JUNIOR SUBJECTS: Economics 111, 113, 114, 131, 132, and Business 101, and 102 (3 hrs. each).

SENIOR SUBJECTS: Economics 133, 200, 215, 240, 241, 244, and 251 (3 hrs. each); and Economics 212 (4). And enough hours to be selected from political science, history, sociology, business administration, psychology, and related subjects to make a total of 64 hours of upper-division work.

SUGGESTED PROGRAM IN BUSINESS ADMINISTRATION

Students who are taking major work in economics and who definitely are planning to go into business as a career will find it helpful to plan their schedule in accordance with the following program:

Upper Division

JUNIOR SUBJECTS: Business Administration 101, 102, 121, and 141, Journalism 113, and Economics 111, 114, and 113 (3 hrs. each).

SENIOR SUBJECTS: Business Administration 103, 104, 126, and 148 (3 hrs. each); Economics 212 (4) and 215, 131, and 132 (3 hrs. each). Electives in economics, sociology, political science history, and related subjects to make 64 hours of upper-division courses.

SOCIOLOGY

The West Virginia State Department of Public Welfare desires the cooperation of the social science departments of West Virginia University in the training of students for responsible social service work in West Vir-

ginia, especially for county welfare secretaries and assistant secretaries. Sociology majors planning for work in this field are expected to do a considerable amount of supervised field work with approved social welfare agencies in Morgantown and Monongalia county.

SUGGESTED PROGRAMS FOR SOCIOLOGY MAJORS

SECOND YEAR: Sociology 1 (3); Economics 1 and 2 (6); military science or physical education (2); history (6); political science (6); group requirements and electives (9). Total, 32 hrs.

THIRD YEAR: Sociology 103, 105, 234, and 108 (3 each); Psychology 1 (3) and 116 (3); Journalism 1 (3); Genetics 111 (2); Economics 111 (3); electives (6). Total, 32 hrs.

FOURTH YEAR: Sociology 210, 232, 241, 242, 233, and 240 or 246 (3 each); Economics 212 (4); electives (10). Total, 32 hrs.

ECONOMICS, BUSINESS ADMINISTRATION, AND SOCIOLOGY

Professors HARRIS, VICKERS, and DADISMAN; Assistant Professors SAPOSNEKOW and KELLER; and Instructor HUTCHINSON

ECONOMICS[1]

Lower Division

1, 2. **Principles of Economics.** I, II. 3 Hrs. per semester. An introduction to the general field of economics. Staff

21. **Economic Development of the United States.** II. 3 Hrs. Beginnings and growth of industry, agriculture, and commerce. Mr. Dadisman

Upper Division

103. **Principles of Economics.** I. 3 Hrs. For students in the College of Engineering. Mr. Keller

110. **Money and Banking.** II. 2 Hrs. Prereq.: Economics 103. For students in the College of Engineering. A brief combination course treating the subjects of money and banking, and business finance. Mr. Keller

111. **Money and Banking.** I. 3 Hrs. Nature and functions of money and of credit; functions of banks and principles of banking as revealed in the banking systems of leading countries. Mr. Vickers

113. **Business Organization.** I. 3 Hrs. Forms of business organization and their development, with emphasis upon government control and public policy. Mr. Keller

114. **Business Finance.** I. 3 Hrs. Prereq.: Economics 113. Financing business enterprise; classes of securities; promotion; underwriting; distribution of earnings; financial reorganization. Mr. Keller

131. **Statistics.** I. 3 Hrs. Principles of computing averages and trends in economic data; price indexes; business forecasting. Advanced mathematics not required. Mr. Hutchinson

[1]Economics 1 and 2 are prerequisites for all upper-division courses in economics except Economics 103 and 110.

132. **Statistics.** II. 3 Hrs. Continuation of Economics 131. An advanced course. Mr. Hutchinson

133. **Principles of Insurance.** II. 3 Hrs. General principles which underlie all forms of insurance. Mr. Hutchinson

200. **Principles of Land Economics.** I. 3 Hrs A land-policies course dealing with the characteristics, utilization, income, tenure, taxation, conservation, and financing of land—both urban and rural, including mineral, forest, and recreational land. Mr. Dadisman

212. **Public Finance.** II. 4 Hrs. Principles and methods of taxation and of financial administration as revealed in fiscal systems of leading countries. Mr. Vickers

215. **Principles of Investment.** II. 3 Hrs. Prereq.: Economics 114. Investment analysis; stocks, bonds, mortgages, real estate; stock exchanges; factors affecting the prices of securities. Mr. Keller

240. **Labor Problems.** II. 3 Hrs. Origin and nature of modern labor problems; methods of solution practiced and proposed; organization, legislation, insurance, reform programs. Mr. Vickers

241. **Principles of Transportation.** II. 3 Hrs. Nature, history, and problems of inland transportation, with special reference to the United States. Mr. Dadisman

244. **Public Utilities.** II. 3 Hrs. Nature, history, and problems of public utilities; rate structure; government regulation; combination. Mr. Keller

251. **History of Economic Thought.** I. 3 Hrs. The development of economic theories and the emergence of principles; causes, nature, and effects of changes; relation to economic and political institutions. Mr. Vickers

390. **Seminar.** I, II. 2 to 4 Hrs. Staff

BUSINESS ADMINISTRATION

Upper Division

101, 102. **Principles of Accounting.** I and II. 3 Hrs. per semester. Construction and interpretation of commercial and industrial records, including a study of corporate and partnership accounts. Mr. Hutchinson

103. **Industrial Accounting.** I. 3 Hrs. The determination of costs, and their allocation to business processes. Mr. Hutchinson

104. **Advanced Accounting.** II. 3 Hrs. An enlargement of Business Administration 101 and 102 entailing more complex business transactions. Mr. Hutchinson

121. **Marketing.** I. 3 Hrs. Principles of marketing raw materials and industrial products; trade organizations, organized exchanges, and trade information. Mr. Hutchinson

122. **Marketing.** II. 3 Hrs. Continuation of Business 121. Mr. Hutchinson

126. **Retail-Store Management.** II. 3 Hrs. Department-store organization, merchandise control system, and general operating policies principally for large-scale retail establishments. Mr. Hutchinson

131. **Business Management.** I. 3 Hrs. The internal organization and administration of a business enterprise. Not open to economics majors. Mr. Hutchinson

141. **Business Law.** I. 3 Hrs. The rights and duties of a business man in contractual and agency regulations. Not open to students preparing for law degree. Mr. Hutchinson

148. **Sales Management.** II. 3 Hrs. Principles of marketing applied to the problems of a sales or marketing executive. Mr. Hutchinson

SOCIOLOGY*

Lower Division

1. **Introduction to Sociology.** I, II. 3 Hrs. Analysis of the social forces is followed by a description of social institutions and social processes. Staff

3 or 103. **Rural Sociology.** II. 3 Hrs. Distinctive characteristics and problems of rural society. Mr. Harris

Upper Division

101. **Introduction to Sociology.** I, II. 3 Hrs. Analysis of the social forces, the social heritage, the more important social processes, of collective behavior, social control, and social change. Staff

105. **Urban Sociology.** II. 3 Hrs. Rise and growth of urbanism. Problems of population, health, housing and sanitation, education and recreation poverty, and crime in the city. Mr. Saposnekow

108. **Problems of Child Welfare.** II. 3 Hrs. The social or community aspects of child welfare problems. Special reference to West Virginia. Mr. Harris

210. **The Family.** II. 3 Hrs. The modern family in its sociological, economic, and legal aspects. Mr. Harris

231. **Race Problems.** I. 3 Hrs. Problems of race relationships, with special reference to present day aspects of the American negro problem. Mr. Harris

232. **Immigration.** I. 3 Hrs. After a brief historical survey of immigration, the economic, industrial, political, and social phases of the problem are discussed. Mr. Saposnekow

233. **Problems of Crime and Delinquency.** I. 3 Hrs. Readings, research projects, and inspection trips. Mr. Saposnekow

234. **Problems of Dependents and Defectives.** II. 3 Hrs. Readings, research projects, and inspection trips. Mr. Saposnekow

235. **Introduction to Social Legislation.** I. 3 Hrs. History, purpose, and scope of public-welfare legislation in the United States and abroad. Special emphasis on social legislation and social insurance in West Virginia. Mr. Saposnekow

240. **Social Control.** I. 3 Hrs. The why and the how of social control processes. Mr. Harris

241. **Community Organization.** II. 3 Hrs. Practical and theoretical aspects of community and group organization. Mr. Harris

*Sociology 1 or 101 is a prerequisite to all other sociology courses.

242. **Introduction to Social Work.** I. 3 Hrs. Forerunners of professional social work in England and the United States. Public-welfare activities, with special reference to West Virginia. Mr. Harris

243. **Social Origins.** I. 3 Hrs. An introduction to anthropology. Mr. Saposnekow

246. **History of Social Thought.** II. 3 Hrs. The development of sociological theory since Comte and Spencer. Mr. Saposnekow

251. **Contemporary Social Problems.** I or II. 3 Hrs. Mr. Harris

Graduate Division

391. **Seminar in Current Sociological Literature.** I. 2 to 4 Hrs. Enrollment by consultation with instructors. Staff

393, 394. **Special Problems in Sociological Research.** I or II. 2 to 4 Hrs. Enrollment by consultation with instructors. Staff

395. **Seminar in Principles and Methods of Research in Sociology.** I. 2 to 4 Hrs. Enrollment by consultation with instructors. Staff

ENGLISH LANGUAGE AND LITERATURE

MAJOR REQUIREMENTS

To be received as a major student in the department of English the student must have credit for the following lower-division courses, or their equivalent: English 1, 2, and 3; English 4 or 65; English 13 or 14;—in all, eight hours in addition to the general college requirement of six hours in English composition (English 1 and 2).

A major student will usually be expected to complete 24 hours of upper-division courses in English, including:

(a) English 142 and 235, 181, 230, and 234.
(b) One course in the history of some literary period.
(c) One course in the study of a literary type.

English majors who are candidates for teachers' certification are required to take only three hours of Shakespeare.

A major student will also be required to complete at least 20 hours in some one of the following languages: French, Latin, German. At least 12 hours in a second foreign language are recommended but are not absolutely required. Spanish will not be accepted as the required language for English majors.

Six hours of English history, History 133 and 134 or their equivalent, are also required of major students.

Candidates for the degree of Master of Arts who have not taken English 230, 231, 234, and 235 or their equivalent as undergraduates must include these courses in their graduate program. Courses 224 and 391 are also required of all English graduate majors.

Candidates for the degree of Master of Arts with major in English must have completed 20 hours of college work in French, German, or Latin.

HONORS IN ENGLISH

Students enrolled in the department of English, whether major students or not, who maintain an honor-point average of at least 2.0 during their junior and senior years and who complete at least 24 hours of upper-division work in English may qualify as *honor students in English* and receive a special departmental honor certificate upon graduation. For full information concerning the requirements for honors in English, students should consult the head of the department.

CERTIFICATION WITH ENGLISH AS A TEACHING FIELD

A major in English may meet the requirements for the A. B. degree and also the requirements of the State Board of Education for teachers' certification, with English and French or with English and Latin as teaching fields, in four years or eight semesters, provided two years of high-school Latin or French have been offered for entrance credit. In lieu of two entrance credits, ten additional hours of college work in the language are required for certification. Other combinations, such as English and the social studies or English and physical education, will usually require somewhat more than four years, and students who desire these combinations should consult the departmental adviser in planning their courses.

ENGLISH LANGUAGE AND LITERATURE

Pofessors JOHNSON and DRAPER; Associate Professors CHAPPELL and SMITH; Assistant Professors CROCKER and BRAWNER; Instructors REED, SAYRE, PETTIGREW, BISHOP, HOWARD, PAGE, and WENTWORTH

Lower Division

1C. English Composition. I, II. 3 Hrs. Required of all students who are inadequately prepared for English 1. Staff

1. Composition and Rhetoric. I, II. 3 Hrs. Primarily for freshmen. English 1 and 2 are required of all candidates for the bachelor's degree in all colleges. Staff

2. Composition and Rhetoric. I, II. 3 Hrs. Continuation of English 1. Staff

3. English Literature. I, II. 3 Hrs. Primarily for sophomores. Staff

4. English Literature. I, II. 3 Hrs. Continuation of English 3. Primarily for sophomores. Staff

13. Expository Writing. I, II. 2 Hrs. Required for certification in English teaching field. Staff.

14. Descriptive and Narrative Writing. I. 2 Hrs. Prereq.: Either English 13 or a mark of at least B in English 2. Mrs. Reed

65. American Literature. I, II. 3 Hrs. Mr. Brawner and Mr. Wentworth

Upper Division

Credit for at least nine hours of lower-division English is prerequisite to admission to any of the upper-division courses except English 186. Credit for

English 1, 2, and 3, and for at least three hours of upper-division English, is prerequisite for admission to courses 230 to 393, inclusive, except where otherwise indicated in the course announcement.

103. English Literature. I. 3 Hrs. Mr. Crocker and Mr. Brawner

104. English Literature. II. 3 Hrs. Mr. Crocker and Mr. Brawner

111. Advanced Composition: Types and Problems of Logical Composition. I. 2 Hrs. Mr. Crocker

113. Expository Writing. I, II. 2 Hrs. Mr. Johnson

115. Advanced Composition: Creative Writing. II. 3 Hrs. Students should consult instructor before registering. Mrs. Reed

142. Shakespeare. I, II. 3 Hrs. Prereq.: English 3 or 4. Mr. Smith and Mr. Crocker

160. Contemporary Literature. I, II. 2 Hrs. Mr. Smith

165. American Literature. I. 3 Hrs. Mr. Brawner

166. American Fiction. II. 3 Hrs. Mr. Brawner

172. Folk Literature in West Virginia. I. 2 Hrs. An introductory course in folk games, songs, ballads, and stories of the state. It satisfies the state requirements for training in directing a co-curricular activity in the high school. Mr. Chappell

175. The Short Story. I. 2 Hrs. Mr. Brawner

181. Bible Literature. I. 3 Hrs. Mr. Johnson

185. Masterpieces of World Literature. II. 2 Hrs. Mr. Crocker

186. English for Engineers. II. 1 Hr. Mr. Johnson

221. Advanced Composition. II. 2 Hrs. Studies in rhetoric and style; individual problems in composition. Mr. Johnson

224. Literary Criticism. I. 3 Hrs. Mr. Johnson

230. The English Language. I. 3 Hrs. Mr. Chappell

231. Old English. I. 3 Hrs. Mr. Chappell

232. Beowulf. II. 3 Hrs. Mr. Chappell

234. Chaucer. II. 3 Hrs. Mr. Smith and Mr. Chappell

235. Shakespeare. I, II. 3 Hrs. Mr. Draper

237. Mediaeval Metrical Romances. II. 2 Hrs. Mr. Chappell

239. Early English Drama. I. 3 Hrs. Mr. Crocker

240. English Drama from 1600 to 1642. II. 3 Hrs. Mr. Crocker

†**241.** Literature of the Sixteenth Century. I. 3 Hrs. Mr. Draper and Mr. Chappell

†243. **Restoration and Eighteenth Century Drama.** I. 3 Hrs. Mr. Crocker

†245. **Literature of the Seventeenth Century.** I. 3 Hrs. Mr. Draper

247. **Literature of the Eighteenth Century.** I. 3 Hrs. Mr. Draper

248. **Literature of the Eighteenth Century.** II. 3 Hrs. Mr. Draper

†249. **The Romantic Movement.** I. 2 Hrs. Prereq.: English 4. Mr. Brawner

251. **Victorian Literature.** I. 2 Hrs. Mr. Smith

259. **Modern English Literature, 1881-1918.** I. 3 Hrs. Mr. Smith

261. **Aspects of the Drama.** I. 2 Hrs. Mr. Crocker

262. **Modern Drama.** II. 3 Hrs. Mr. Crocker

263. **Study of One Author.** II. 2 Hrs. The entire production or the most important work of some selected author of the nineteenth or twentieth century is studied to gain a complete view. Mr. Smith or Mr. Brawner

264. **Study of One Author.** I. 2 Hrs. The work of one author of the sixteenth, seventeenth, or eighteenth century is studied. Mr. Draper

†267. **American Drama.** I. 2 Hrs. Mr. Smith

268. **American Romanticism.** I. 2 Hrs. Prereq.: English 65 or equivalent. Mr. Smith

†269. **Emerson and Thoreau.** II. 2 Hrs. Prereq.: English 65 or equivalent. Mr. Wentworth

270. **Poe and Whitman.** II. 2 Hrs. Prereq.: English 65 or equivalent. Mr. Smith

†272. **Balladry and Folk-lore.** I. 2 or 3 Hrs. Students should consult the instructor before registering in this course. Mr. Chappell

273. **Poetry.** II. 2 Hrs. Mr. Brawner

274. **The English Lyric.** II. 2 Hrs. Mr. Draper

276. **The English Novel.** I. 3 Hrs. Mr. Johnson

277. **The Essay.** II. 3 Hrs. Mr. Johnson

Graduate Division

391. **Introduction to Literary Research.** I, II. 2 or 3 Hrs. Mr. Draper and Mr. Chappell

392. **Seminar.** I. 2 or 3 Hrs. The subject will vary according to the needs of the group taking the seminar. Prereq.: an adequate training in English literature and the special field. Mr. Draper and Mr. Chappell

393. **Seminar.** II. 2 or 3 Hrs. Alternative with English 392. Mr. Draper and Mr. Chappell

†Omitted, 1937-38.

GEOLOGY, MINERALOGY, AND GEOGRAPHY

Each student majoring in geology is required to present credit for Geology 163s or its equivalent in completing the following schedule:

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: French or German (3); English 1 (3); Mathematics 3 (3); Chemistry 3 (4); military science (1); physical education (1). Total, 15 hrs.

FIRST YEAR, SECOND SEMESTER: French or German (3); English 2 (3); Mathematics 4 (2); Chemistry 4 (4); military science (1); physical education (1); elective (3). Total, 17 hrs.

SECOND YEAR, FIRST SEMESTER: French or German (3); Geology 1 (4); history or economics (3); English, journalism, or public speaking (3); Mechanical Engineering 20 (2); military science (1). Total, 16 hrs.

SECOND YEAR, SECOND SEMESTER: French or German (3); Geology 3 (4); history or economics (3); English, journalism, or public speaking (3); Civil Engineering 1 (3); military science (1). Total, 17 hrs.

THIRD YEAR: Geology 205 (4) and 206 (4); Physics 1, 2, 3, and 4 (8); Chemistry 105 (4) and 106 (5); electives (8 to 10). Total, 33 to 35 hrs.

FOURTH YEAR: Geology 204 (4), 284 (4), 208 (3), 209 (3), and 285 (4); electives (14 to 16). Total, 32 to 34 hrs.

SEQUENCES

Lower Division

Geology 1 and 3 give a general view of the subject.
Geology 2 and 111 introduce rocks and minerals and their uses.
Geography 7 and 109 or 116 is a combination for students in education.
Geology 2 and 111 is a sequence suggested for majors in economics. If time permits, Geology 3 should be included in this group.
Geography 116 and 108 follow the lower-division courses for students of education.
Geology 1, 3, and Geography 108 is a good general sequence.

GEOLOGY, MINERALOGY, AND GEOGRAPHY

Associate Professors MARTENS, FRIDLEY, and PRICE; Assistant Professor LUCKE; and Instructor WELLS

GEOLOGY AND MINERALOGY

Lower Division

1. **General Geology.** I, II. 3 or 4 Hrs. Staff

2. **Minerals and Rocks.** I, II. 4 Hrs. Mr. Martens

3. **Historical Geology.** I, II. 3 or 4 Hrs. Prereq.: Geology 1. Mr. Wells

4. **Geology for Students in Agriculture.** I. 3 Hrs. Mr. Fridley

Upper Division

111. **Economic Geology.** I. 3 Hrs. An introduction to our useful minerals and rocks. Prereq.: Geology 1 or Geology 2. Mr. Martens

161. **Field Geology.** II. 3 Hrs. Prereq.: Geology 3 or equivalent. Mr. Lucke

163S. **Field Geology.** SI. 3 Hrs. Summer field work away from the University. Prereq.: Geology 3. Mr. Price

204. **Paleontology.** I. 4 Hrs. Invertebrate fossils and their use in correlating strata. Prereq.: Geology 3. Mr. Wells

205. **Structural Geology.** II. 3 or 4 Hrs. A study of the shapes and positions of rock masses in the earth, the origin of these features, and their bearing upon recovery of oil and other mineral products. Mr. Price

206. **Sedimentation.** I. 4 Hrs. Studies in the origin of sedimentary rocks. Prereq.: Geology 3. Mr. Lucke

207. **Stratigraphy.** II. 4 Hrs. Study of the distribution and general characteristics of the principal sedimentary formations of North America. Prereq.: Geology 3. Mr. Wells

208. **Advanced Physiography.** I. 3 Hrs. Includes a study of the surface features of the eastern United States. Prereq.: Geology 3. Mr. Fridley

209. **Advanced Physiography.** II. 3 Hrs. Continuation of Geology 208. Includes a study of the surface features of the western United States. Prereq.: Geology 3. Mr. Fridley

211. **Economic Geology: Coal, Oil, and Gas.** II. 3 or 4 Hrs. Prereq.: Geology 3 and Chemistry 106. Mr. Lucke

266S. **Field Geology.** S. 5 Hrs. Continuation of Geology 163S. Mr. Price

273S. **Geological Survey.** S1, S2. 1 to 4 Hrs. Field work in connection with State Geological Survey. Mr. Price

284. **Mineralogy.** I. 4 Hrs. Prereq.: Chemistry 6 and Physics 4. Mr. Martens

285. **Microscopic Mineralogy.** II. 4 Hrs. An introduction to the use of the polarizing microscope. Prereq.: Geology 284. Mr. Martens

289. **Geologic Problems.** I, II. 2 to 4 Hrs. Consult instructor before registering. Staff

290. **Geologic Problems.** I, II. 2 to 4 Hrs. Similar to Geology 289. Staff

291, 292. **Seminar.** I, II. 1 Hr. Prereq.: Geology 204. Mr. Martens

Graduate Division

397, 398. **Research.** I, II. 1 to 5 Hrs. Staff

GEOGRAPHY

Lower Division

7. **Introductory Geography.** I. 3 or 4 Hrs. Primarily for social-science majors in College of Education. A study of the relationship between environment and forms of life, with special emphasis on physiography and climatology. Mr. Fridley

Upper Division

108. **Natural Resources and Geology of West Virginia.** I. 2 or 3 Hrs. Prereq.: Geography 7 or Geology 1. Mr. Price

109. **Economic Geography.** II. 2 Hrs. Prereq.: Geography 7 or Geology 1. Mr. Fridley

116. **Geography of North America.** II. 3 Hrs. Prereq.: Geography 7. Mr. Fridley

GERMANIC LANGUAGES AND LITERATURES

The chief objective of the department is to enable the student to read thoughtful German without the aid of a dictionary. Of German 1, 2, 3, and 4, each is prerequisite to the next following, and the four combined are prerequisite to all other courses.

Students majoring in German are advised to base their schedules on upper division courses from the following subjects, which are listed here in the order of their importance: German, education, English, European history, Latin, Romance languages, modern philosophy, and Greek. Those who are not planning to teach German may omit the courses in education, but the sequence of subjects, from the angle of their desirability for a major in German, remains the same.

GERMANIC LANGUAGES AND LITERATURES[1]

Professor PORTERFIELD; Associate Professor WADEPUHL; Assistant Professor ROESCH; and Instructor NORDMEYER

Lower Division

1. **Elementary German.** I, II. 3 Hrs. Pronunciation, syntax, reading, composition. Staff

2. **Elementary German.** I, II. 3 Hrs. Staff

3. **Intermediate German.** I. 3 Hrs. Rapid reading of prose by modern authors, memorizing of poems, dictation, composition. Staff

4 or 104. **Intermediate German.** II. 3 Hrs. Continuation of German 3. Staff

Upper Division

107. **Nineteenth Century Drama.** I. 3 Hrs. Critical study of selected dramas by Kleist, Gillparzer, Hebbel, Ludwig. Mr. Porterfield

108. **Nineteenth Century Drama.** II. 3 Hrs. Continuation of German 107. Mr. Porterfield

[1]German 1, 2, 3, and 4 each is prerequisite to the next following, and the four combined are prerequisite to all other courses with the exception of German 111, 112, 121, and 122, for which German 1 and 2 are prerequisite.

111. **Spoken German.** I. 3 Hrs. Practice in the speaking and writing of German. Miss Roesch

112. **Spoken German.** II. 3 Hrs. Continuation of German 111. Miss Roesch

121. **Scientific German.** I. 3 Hrs. Intended primarily for students in science courses. Prereq.: one year of college German or two years of high-school German. Mr. Wadepuhl

122. **Scientific German.** II. 3 Hrs. Continuation of German 121. Mr. Wadepuhl

131. **German Composition.** I. 1 Hr. Practice in the writing of German. Mr. Nordmeyer

132. **German Composition.** II. 1 Hr. Practice in the writing of German. Mr. Nordmeyer

201. **Old High German.** I. 1 Hr. Prereq.: 12 hours of German from the upper division. Mr. Porterfield and Mr. Nordmeyer

202. **Old High German.** II. 1 Hr. Prereq.: same as for German 201, and including it. Mr. Porterfield and Mr. Nordmeyer

211. **Middle High German.** I. 1 Hr. Prereq.: 12 hours of German from the upper division. Miss Roesch

212. **Middle High German.** II. 1 Hr. Prereq.: Same as for German 211, and including it. Miss Roesch

†221. **Gothic.** I. 2 Hrs. Prereq.: 12 hours of German from the lower division, German 251, 252, and English 231 and 232. Mr. Porterfield and Mr. Nordmeyer

†222. **Gothic.** II. 2 Hrs. Prereq.: same as for German 221, and including German 221. Mr. Porterfield and Mr. Nordmeyer

†241. **Faust, Part I.** I. 3 Hrs. Open to qualified undergraduates. Mr. Porterfield

†242. **Faust, Part II.** II. 3 Hrs. Prereq.: German 241. Mr. Porterfield

245. **History of German Literature, 1766-1870.** I. 3 Hrs. Mr. Porterfield

246. **History of German Literature, 1870-1914.** II. 3 Hrs. Continuation of German 245. Mr. Porterfield

251, 252. **History of the German Language.** I and II. 2 Hrs. per semester. Open to qualified undergraduates. Required of all majors who are planning to teach German. Mr. Nordmeyer

HISTORY

Before graduation history majors are required to complete 18 hours in upper division courses, including History 276, introduction to historical research and bibliography. Six hours in political science and 6 hours in economics are also required in addition to the special requirements for the A. B. degree. Students who expect to major in history should complete the following subjects, or their equivalents, in their first and second years: Eng-

†Omitted, 1937-38.

lish, 6 hours; French or German, 12 hours; history, 12 hours, which should include History 52 and 53; zoology, botany, geology, or biology, 8 hours; political science, 6 hours; end economics, 6 hours. In planning further work in history, students should consult the department in order that advanced courses may be properly correlated, as well as suited to individual needs and tastes. One lower division "year course" or equivalent in history is prerequisite for a major, but prospective majors are advised to take two such courses. Students who major in history must obtain the advice of the department of history.

HISTORY

Professors AMBLER, CALLAHAN, CHITWOOD, and SHORTRIDGE; and Assistant Professors DIXON and ENNIS

Lower Division[1]

1. **Europe to 1815.** I, II. 3 Hrs. For freshmen. Mr. Ennis and Miss Dixon

2. **Europe since 1815.** II. 3 Hrs. Continuation of History 1. Mr. Ennis and Miss Dixon

52. **History of the United States.** I, II. 3 Hrs. For sophomores. First semester ends at 1852. Mr. Chitwood and Mr. Ambler

53. **History of the United States.** II. 3 Hrs. Continuation of History 52. Mr. Chitwood and Mr. Ambler

Upper Division

101. **Ancient History.** I. 3 Hrs. Mr. Ennis

106. **Medieval Europe.** I. 3 Hrs. Prereq.: one college course in European history. Mr. Ennis

107. **The French Revolution.** I. 3 Hrs. Miss Dixon

108. **The Napoleonic Era.** II. 3 Hrs. Prereq.: History 107. Miss Dixon

114. **The Renaissance and the Reformation.** II. 3 Hrs. Mr. Ennis

133. **English History to 1688.** I. 3 Hrs. Mr. Shortridge

134. **English History Since 1688.** II. 3 Hrs. Continuation of History 133. Mr. Shortridge

151. **American Colonial History.** I, II. 3 Hrs. Mr. Chitwood

161. **History of Latin America.** I or II. 3 Hrs. Mr. Callahan

164. **Problems of the Pacific.** II. 3 Hrs. Mr. Ennis

188. **The Puritan Revolution.** I. 3 Hrs. Miss Dixon

[1]All first and second-year courses are offered as lower-division "year courses." These courses run through the year, but in no case is the first half year a prerequisite for the second half. For example, History 1 is not a prerequisite for History 2. History 1 and History 2 make up the introductory first year in history. History 52 and 53 are primarily for sophomores. A freshman should not take more than one "year course" at a time, and a sophomore may take two "year courses" only by permission of the adviser and the department of history.

218. Causes of the World War. II. 3 Hrs. Mr. Chitwood

231. The British Empire. I. 3 Hrs. Mr. Shortridge

232. History of Canada. II. 3 Hrs. Mr. Shortridge

235. British Reform Movements. II. 3 Hrs. Mr. Shortridge

236. English Constitutional History. I. 3 Hrs. Mr. Shortridge

241. Modern Europe, 1876-1914. II. 3 Hrs. Mr. Ennis

242. Contemporary Europe. I or II. 3 Hrs. Mr. Ennis

249. Western Virginia to 1860. I. 3 Hrs. Mr. Ambler

250. History of West Virginia. II. 3 Hrs. Mr. Ambler

255. American Constitutional Development. I, II. 3 Hrs. Prereq.: History 52 and 53, or equivalent. Mr. Callahan

256. The Jacksonian Era. II. 3 Hrs. Mr. Chitwood

257. The Old South. I, II. 3 Hrs. Mr. Ambler

258. Reconstruction and National Development, 1865-1898. I, II. 3 Hrs. Mr. Ambler

259. Recent American History. II. 3 Hrs. Mr. Ambler

260. American Foreign Policy and Diplomacy, 1776-1861. I. 3 Hrs. Prereq.: History 52 and 53, or equivalent. Mr. Callahan

261. American Foreign Policay and Diplomacy, 1861-1934. II. 3 Hrs. Prereq.: Same as for History 260. Mr. Callahan

263. Anglo-American Diplomatic Relations. I. 3 Hrs. Mr. Callahan

264. American Policy in Latin-American Relations. II. 3 Hrs. Mr. Callahan

271. Problems in Recent European History. II. 3 Hrs. Mr. Chitwood

276. Introduction to Historical Research and Bibliography. I, II. 3 Hrs. This course is prescribed in the fourth year for all history majors. Mr. Ambler and Mr. Callahan

289. Problems in Revolutionary Europe, 1763-1815. I or II. 3 Hrs. Miss Dixon

Seminars[1]

349. Problems in Local and Regional History. I. 3 Hrs. Mr. Ambler

350. Problems in Local and Regional History. II. 3 Hrs. Mr. Ambler

370. Research in American History. I, II. 2 Hrs. Mr. Callahan

383. American Colonial Institutions. I, II. 3 Hrs. Mr. Chitwood

384. Problems in British Imperial History. I. 3 Hrs. Mr. Shortridge

385. Problems in British Imperial History. II. 3 Hrs. Mr. Shortridge

[1]Seminar courses are for history and social science majors and admission is only by permission of instructors in charge and should be by their request.

HOME ECONOMICS

Courses in this subject are offered in the College of Arts and Sciences and in the College of Agriculture.

Students in the College of Arts and Sciences who select home economics as major must complete the lower-division requirements with the following changes (see page 20).

(b) SCIENCE. Chemistry, 8 hours, and Biology, 8 hours.

(e) ADDITIONAL. At least 6 hours in each of three of the following: English, history, politial science, economics or sociology, philosophy and psychology, home economics.

(f) ELECTIVES include Home Economics 17, 31, 3, 4.

In the upper division, Home Economics 107, 115, 120, 135, 240, 251, 254, or 252 should be taken, and the total hours must not exceed 36 in this College. Courses in the biological and social sciences are especially suggested.

Students who are preparing to teach home economics must meet the requirements of the State Board of Education and of the College of Education.

The head of the home economics department in the College of Agriculture is also a member of the College of Education and is the adviser for students wishing to meet the requirements for a high-school certificate to teach home economics.

JOURNALISM

Instruction in professional journalism was begun in 1920. The department of journalism was established in 1927 with two full-time instructors. At present the department has three full-time instructors who offer 17 courses, embracing the entire scope of professional training for journalistic practice. Major students are required to earn at least 30 hours of credit in journalism and at least 12 hours in some related minor subject. The journalism curriculum, which calls for extensive study also in the social sciences, the natural sciences, and the humanities, leads to the degree of Bachelor of Arts.

Three classes of students are served: those wishing to make journalism the nucleus of a modern liberal education; those looking forward to business or professional practice for which journalistic training furnishes excellent basic preparation; those contemplating reporting and other journalistic writing, or the editing and management of newspapers or special periodicals, as a career.

The journalism rooms and laboratories are equipped and utilized like the headquarters of a large weekly or small daily newspaper. They contain 20 typewriters, a U-copydesk and other work tables, a "morgue" and reading room, equipment for teaching typography and news photography, telephones, reference books, and the like.

Over a period of three years major students have extensive practical experience in producing the Daily Athenaeum and other campus publications. The campus daily, prepared under the direction of the department, offers not only extensive experience in local reporting and writing but an opportunity to handle the wire copy of an international press association. During the summer following both the sophomore and the junior year many students gain additional practical training on state newspapers.

Besides instruction in professional journalism the department supervises campus publications, cooperates with the University Bureau of Information in furnishing correspondence for state newspapers, provides professional service for state high-school newspapers, and joins with the journalistic associations of the state in advancing their professional interests.

Students in journalism maintain four organizations; the University Press Club, to which all proficient reporters and advanced students belong; Matrix, professional sorority; Journaliers, professional fraternity; Kappa Tau Alpha, national journalistic scholarship society.

Before or soon after entering the University, students planning to major in journalism should learn the touch system of typewriting. After the first eight weeks in Journalism 1, all written work must be done on a typewriter. Since journalism students will also find shorthand of great practical value, they are urged, although not required, to learn it before coming to college, or during the freshman or the sophomore year.

Major students in journalism will use the following flexible curriculum as their schedule of studies from year to year. Courses in journalism are not open to freshmen.

CURRICULUM FOR JOURNALISM MAJORS

NOTE. Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3) and 4 (3); foreign language (3); science (4); military science (1); physical education (1); electives (1 to 3). Total, 16 to 18 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); foreign language (3); science (4); History 2 (3); military science (1); physical education (1); electives (1 to 3). Total, 16 to 18 hrs.

SECOND YEAR, FIRST SEMESTER: Journalism 1 (3); History 52 (3); foreign language (3); Economics 1 (3); Psychology 1 (3); military science or physical education (1); elective (0 to 2). Total, 16 to 18 hrs.

SECOND YEAR, SECOND SEMESTER: Journalism 2 (3); History 53 (3); foreign language (3); Economics 2 (3); Political Science 5 (3); military science or physical education (1); elective (0 to 2). Total, 16 to 18 hrs.

THIRD YEAR: Journalism 103, 220, 104, and 127 (3 each); Political Science 106 (3); Pol. Sci. 107, 211, 216, or 223 (3); Sociology 101 (3); Philosophy 104 (3); electives (8 to 12). Total, 32 to 36 hrs.

FOURTH YEAR: Journalism 230 (3), 125 (2), 231 (3), and 128 (3); English 142 (3); advanced social science (9 to 10); electives (9 to 12). Total, 32 to 36 hrs.

JOURNALISM

Professor REED; Assistant Professor RINEHART and Instructor MICHELSON

Lower Division

1. Newspaper Reporting.[1] I, II. 3 Hrs. Two lectures and three laboratory hours. Students are required to know how to use a typewriter

[1]Students receiving a mark below B in Journalism 1 are advised not to continue work in this department.

or to acquire such knowledge during the first half of the semester. Prereq.: English 1 and 2, with a final mark of B or higher in each. Mr. Michelson and Mr. Rinehart

2. **Newspaper Reporting.** I, II. 3 Hrs. Two lectures and three laboratory hours. Continuation of Journalism 1, which is prereq. Mr. Michelson and Mr. Rinehart

Upper Division

103. **Copy Editing.** I. 3 Hrs. Prereq.: Journalism 1 and 2 or consent of instructor. Mr. Rinehart

104. **Copy Editing.** II. 3 Hrs. Prereq.: Journalism 103 or consent of instructor. Mr. Rinehart

†108. **The Community Newspaper.** I. 2 Hrs. Prereq.: Journalism 1 and 2 or consent of instructor. Mr. Rinehart

110. **Newspaper Typography.** II. 2 Hrs. Prereq.: Journalism 1 and 2 or consent of instructor. Mr. Rinehart

112. **Publicity Methods.** II. 2 Hrs. Mr. Michelson

113. **Newspaper Advertising.** I. 3 Hrs. Mr. Rinehart

115. **High-School Journalism and Student Publications.** II. 2 Hrs. Mr. Reed

120. **News Photography.** I. 2 Hrs. Prereq.: Journalism 1 and 2 or consent of instructor. Mr. Michelson

125. **Newspaper Management.** I. 2 Hrs. Prereq.: Journalism 1, 2, 103, and 104, or consent of instructor. Mr. Rinehart

127. **History of American Journalism.** II. 3 Hrs. Mr. Reed

128. **Advanced Reporting and Law of the Press.** II. 3 Hrs. For seniors in journalism. Mr. Rinehart

220. **Feature Writing.** I. 3 Hrs. For seniors and graduates. Mr. Reed

221. **Journalistic Critical Writing.** I. 2 Hrs. For seniors and graduates. Mr. Reed

230. **Editorial Writing.** I. 3 Hrs. For seniors and graduates. Mr. Reed

231. **Journalism Ethics.** II. 3 Hrs. For seniors and graduates. Mr. Reed

LIBRARY TRAINING

Professor BROUZAS and Assistant REESE

Upper Division

1 or 101. **Library Methods.** I. 2 Hrs. An introductory course for the purpose of acquainting students with the University Library and the practice of library methods; instruction in the use of catalogues, indexes, and general reference books. Intended primarily for upper-division students; lower-division students admitted by special permission only. Miss Reese

†Omitted, 1937-38.

2 or 102. **Library Methods.** II. 2 Hrs. Theory and practice of library methods, including elementary cataloguing, classification, binding, and repair of books, loan desk, etc. Miss Reese

104S. **School-Library Administration.** SI. 2 Hrs. The administration of different types of school libraries, with special reference to junior and senior high-school libraries. The various steps in establishing and managing the library. Miss Reese

MATHEMATICS

Students who enter from high school with only 1 unit of algebra and 1 unit of plane geometry must elect Mathematics 2 before being admitted to any further courses, except Mathematics 7.

Students who wish to fulfill requirements for mathematics as a teaching subject are advised to take Mathematics 3, 4, 5, 7, and 107, and 108, or in case the student enters with only 1 unit in algebra and 1 unit in plane geometry, Mathematics 2, 3, 4, 7, 5, and 107 and 108.

PREPARATION FOR THE MAJOR. Mathematics 7, 3, 4, 5. Students who have only 1 unit in algebra, Mathematics 2, 3, 7, 4, 5. If a student comes well prepared in mathematics, the upper-division courses, Mathematics 107 and 108, may be taken while he is still a student in the lower division.

THE MAJOR. Mathematics 107, 108, 240, 241, 242, and one of the following courses: 243, 244, and 245.

COURSES SUGGESTED FOR MAJORS IN MATHEMATICS WITH A SECOND TEACHING SUBJECT

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3); French or German (3); history (3); Mathematics 3 (4) and 4 (2); military science (1); physical education (1). Total, 16 or 17 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); French or German (3); history (3); Mathematics 5 (4); public speaking (2); military science (1); physical education (1). Total, 16 to 17 hrs.

SECOND YEAR, FIRST SEMESTER: French or German (3); Mathematics 107 (4); science (4); economics (3); political science (3); military science (1); physical education (1). Total, 18 or 19 hrs.

SECOND YEAR, SECOND SEMESTER: French or German (3); Mathematics 108 (4); science (4); sociology (3); English (2); military science (1); physical education (1). Total, 17 or 18 hrs.

THIRD YEAR: Mathematics 240 (3) and 242 (3); education (8); health (2); second teaching subject and electives (13 to 19). Total, 29 to 35 hrs.

FOURTH YEAR: Mathematics 241 (3); 243, 244, or 245 (3); education (12); second teaching subject and electives (12 to 18). Total, 30 to 36 hrs.

MATHEMATICS

Professors EIESLAND, REYNOLDS, and TURNER; Associate Professor DAVIS; Assistant Professor VEHSE; and Instructors STEWART and DOWNING

Lower Division

2. **Algebra.** I, II. 3 Hrs. Prereq.: 1 unit of algebra and 1 unit of plane geometry. Staff

3. **College Algebra.** I, II. 4 Hrs. Prereq.: 1½ units of algebra or Mathematics 2, and 1 unit of plane geometry. Staff

4. **Plane Trigonometry.** I, II. 2 Hrs. Prereq.: 1½ units of algebra and 1 unit of plane geometry. Staff

5. **Analytic Geometry.** I, II. 4 Hrs. Prereq.: college algebra and plane trigonometry. Staff

7. **Solid Geometry.** I, II. 2 Hrs. If offered to remove entrance conditions, ½ unit. Prereq.: plane geometry. Staff

10. **Plane Trigonometry.** I, II. 3 Hrs. Prereq.: 1 unit of algebra and 1 unit of plane geometry. Staff

Upper Division

106. **Descriptive Astronomy.** II. 3 Hrs. Required of all majors in mathematics. Prereq.: Mathematics 5. Mr. Eiesland

107 or 207. **Differential and Integral Calculus.** I, II. 4 Hrs. Prereq.: Mathematics 5. Staff

108 or 208. **Differential and Integral Calculus.** I, II. 4 Hrs. Continuation of Mathematics 107. Staff

128. **Mathematical Theory of Investment.** II. 3 Hrs. Primarily for students in economics and sociology. Prereq.: Mathematics 3. Mr. Reynolds

130. **Elementary Theory of Mathematical Statistics.** II. 3 Hrs. Prereq.: Mathematics 107. Mr. Reynolds

240. **Differential Equations.** I. 3 Hrs. Prereq.: Mathematics 108. Mr. Davis

241. **Theory of Determinants and Analytic Geometry of Space.** I. 3 Hrs. Prereq.: Mathematics 108. Miss Turner

242. **Advanced Calculus.** II. 3 Hrs. Prereq.: Mathematics 108. Mr. Eiesland

243. **Projective Geometry.** II. 3 Hrs. Prereq.: Mathematics 241. Miss Turner

244. **Theory of Equations.** II. 3 Hrs. Prereq.: Mathematics 108. Mr. Reynolds

245. **Vector Analysis.** II. 3 Hrs. Prereq.: Math. 240. Mr. Vehse

Graduate Division

360. **Differential Geometry and Theory of Surface.** I. 3 Hrs. Prereq.: Mathematics 240, 241, 242, and 243. Mr. Eiesland

361. **Differential Geometry and Theory of Surface.** II. 3 Hrs. Continuation of Mathematics 360. Mr. Eiesland

362. **Higher Algebra.** 1. 2 Hrs. Prereq.: Mathematics 242 and 243. Mr. Reynolds

363. **Higher Algebra.** II. 2 Hrs. Continuation of Mathematics 362. Mr. Reynolds

364. **Introduction to the Theory of Functions of a Complex Variable.** I. 3 Hrs. Prereq.: Mathematics 240, 242, and 243. Mr. Reynolds

365. **Introduction to the Theory of Functions of a Complex Variable.** II. 3 Hrs. Continuation of Mathematics 364. Mr. Reynolds

366, 367. **Higher Plane Curves.** I and II. 3 Hrs. per semester. Prereq.: Mathematics 243. Miss Turner

370, 371. **Theoretical Mechanics.** I and II. 3 Hrs. per semester. Prereq.: Mathematics 240 and Physics 232. Mr. Davis

372, 373. **Linear Quadratic and Line Complexes.** I and II. 3 Hrs. per semester. Prereq.: Mathematics 361. Mr. Eiesland

374, 375. **Algebraic Surfaces.** I and II. 3 Hrs. per semester. Prereq.: Mathematics 367. Miss Turner

376, 377. **Theory of Functions of a Real Variable.** I and II. 3 Hrs. Prereq.: Mathematics 365. Mr. Reynolds

PHILOSOPHY AND PSYCHOLOGY

There is such wide diversity in the preparation, needs and aims of individual students that the department cannot lay down inflexible rules with regard to sequence of courses.

Psychology 1 is prerequisite to all other courses in the department.

In general, lower division courses precede upper division courses. The upper division courses are arranged in the order best suited to a progressive development of the fields of philosophy and psychology respectively.

MAJORS. Students who desire to do their major work in this department should consult with the head of the department before making their decision.

There are various fields of work open to those who major in either philosophy or psychology, some of which are as follows:

Philosophy Majors:

1. Teaching philosophy in university, college, seminary, or normal school.
2. The ministry.
3. General culture for those not planning to undertake a specific type of work.

Psychology Majors:

1. Teaching psychology in university, college, or normal school.
2. Clinical work in public schools, hospitals, or social service.
3. Vocational guidance.
4. Personnel work in industry.
5. Preparation for certain phases of psychiatry.
6. Consulting psychologist.

A major includes at least 24 hours of work in the Department. Students may major in either philosophy or psychology. Students majoring in either of these branches will include at least one course in the other.

The sequence of courses for each major will be arranged so as to give the student the best foundation for the type of work he wishes to pursue.

RELATED COURSES. Various departments offer courses of special value to students of philosophy and psychology. Following is a list of these courses.

For students in philosophy: classical civilization (Greek life and thought); ancient or medieval history, or both; sociology; at least 12 hours in one of the sciences, or mathematics.

For students in psychology: zoology, physiology; neurology; sociology; education; and political science.

Students whose work shows a marked deficiency in English will be required to take a course in advanced composition.

Majors who look forward to teaching philosophy or psychology should plan to secure at least a Master's degree before applying for a teaching position.

Students who expect to continue their study of philosophy or psychology in a graduate school, either here or elsewhere, are advised to take at least 12 hours of both German and French.

PHILOSOPHY AND PSYCHOLOGY[1]

Professors WINTER, STALNAKER, and ASPINALL; Associate Professor CRESSWELL

PHILOSOPHY

Lower Division

2. **Problems of Conduct.** I. 2 Hrs. Open to freshmen. Mr. Aspinall

4. **Introduction to Philosophy.** I, II. 3 Hrs. Prereq.: Psychology 1. Mr. Cresswell

11 or 111. **Ethics.** I. 3 Hrs. Prereq.: Psychology 1. Mr. Cresswell

Upper Division

104. **Introduction to Philosophy.** I, II. 3 Hrs. Prereq.: Psychology 1. Mr. Cresswell

106. **Logic.** I. 3 Hrs. Prereq.: Psychology 1, Philosophy 4. Mr. Cresswell

107. **Aesthetics.** II. 3 Hrs. Prereq.: Psychology 1, Philosophy 4. Mr. Cresswell

112. **History of Ancient and Medieval Philosophy.** I. 3 Hrs. Prereq.: Psychology 1, Philosophy 4. Mr. Cresswell

113. **History of Modern Philosophy.** II. 3 Hrs. Continuation of Philosophy 112, ending with German Idealism. Prereq.: Psychology 1, and Philosophy 4. Mr. Cresswell

[1]Psychology 1 is prerequisite to all other courses in the department. In general, lower-division courses precede upper-division courses. In the upper division the courses as listed below are arranged in the order best suited to a progressive development of the fields of philosophy and psychology respectively.

114. **Contemporary Philosophy.** II. 3 Hrs. Prereq.: Psychology 1, Philosophy 4, and 3 hours in other philosophy courses. Mr. Cresswell

120. **The Philosophy of Plato.** I. 3 Hrs. Prereq.: Psychology 1, Philosophy 4, and 3 hours in other courses, preferably Philosophy 112. Mr. Cresswell

208. **Philosophy of Religion.** II. 3 Hrs. Prereq.: Psychology 1, Philosophy 4, and 3 hours in other philosophy courses. Mr. Cresswell

212. **Seminar in Medieval Philosophy.** II. 3 Hrs. A study of medieval culture with particular reference to Thomas Aquinas. Prereq.: Psychology 1, Philosophy 4, 112, 113, and 106. Mr. Cresswell

217. **Seminar in Metaphysics.** I. 2 Hrs. A critical study of a selected system of thought. Prereq.: Psychology 1, Philosophy 4, 112, 113, and 106. Mr. Cresswell

PSYCHOLOGY

Lower Division

1. **Introduction to Psychology.** I, II. 3 Hrs. Not open to freshmen. This course is designed to familiarize the student with the principal phenomena of mental life, and is prerequisite to all other courses in psychology and philosophy. Mr. Winter and Miss Stalnaker

10 or 110. **Applied Psychology.** II. 3 Hrs. A study of the application of psychology to medicine and law. Prereq.: Psychology 1. Mr. Winter

12 or 112. **Experimental Psychology.** I, II. 3 Hrs. This course may be taken simultaneously with Psychology 1. Miss Stalnaker

Upper Division

101. **Introduction to Psychology.** I, II. 3 Hrs. Mr. Winter and Miss Stalnaker

116. **Social Psychology.** I. 3 Hrs. Prereq.: Psychology 1. Mr. Winter

122. **Child Psychology.** II. 3 Hrs. Prereq.: Psychology 1. Miss Stalnaker

132. **Psychology of Advertising and Industry.** II. 3 Hrs. Prereq.: Psychology 1. Mr. Winter

219. **Clinical Psychology.** II. 3 Hrs. Prereq.: Psychology 1, 122, and 124. Miss Stalnaker

224. **Mental Measurement.** I. 3 Hrs. Prereq.: Psychology 1. Miss Stalnaker

226. **Advanced Experimental Psychology.** I. 2 Hrs. Students in this course will be given individual problems for experimentation. Prereq.: Psychology 1, 12, and 124. Mr. Winter

229. **Abnormal Psychology.** II. 3 Hrs. Prereq.: Psychology 1, 12, and 116. Miss Stalnaker

230. **Advanced Psychology.** II. 3 Hrs. Prereq.: Psychology 1 and 12, and one course in philosophy. Mr. Winter

234. **Problems in Child Psychology.** II. 3 Hrs. Students in this course will be assigned individual problems in child behavior. Prereq.: Psychology 1, 12, and 122. Miss Stalnaker

240. **History of Psychology** II. 2 Hrs. Prereq.: Psychology 1 and 12, and two courses in philosophy. Mr. Winter

245. **Seminar.** I. 2 Hrs. A critical study of the current literature of psychology. Prereq.: Psychology 1, 12, and 116. Mr. Winter

301, 302. **Special Problems in Psychological Research.** I and II. 2 to 4 Hrs. Staff

PHYSICS

The various courses offered in physics are designed to meet the needs of the students in the Colleges of Arts and Sciences, Agriculture, and Engineering, the School of Music, and the School of Medicine. All the courses are divided into lower and upper divisions. Majors in physics or mathematics will choose courses from the upper group at the beginning of the third year.

COURSES SUGGESTED FOR PHYSICS MAJORS

FIRST YEAR—English, algebra, trigonometry, introductory physics, French, some required subjects.

SECOND YEAR—analytical geometry, calculus, problems in physics, German, general physical laboratory or chemistry (or radio or photography), public speaking, some required subjects.

THIRD YEAR—light, electrical measurements, advanced radio, differential equations, German, some required subjects.

FOURTH YEAR—modern electrical theory or electricity and magnetism, theoretical mechanics, vector analysis, intermediate physical laboratory.

PHYSICS

Professors COLWELL and MOLBY; Associate Professor FORD; Assistant Professor HOLMES; Instructors THOMAS and FRIEND

Lower Division

1. **Introductory Physics.** I. 3 Hrs. Primarily for freshmen. Required of all agricultural students and all students in the School of Medicine. Must be accompanied by Physics 3. Takes up mechanics, sound, and heat. Prereq.: plane geometry and algebra. Mr. Colwell and Mr. Thomas

2. **Introductory Physics.** II. 3 Hrs. Primarily for freshmen. Must be accompanied by Physics 4. Includes electricity, magnetism, and light. Prereq.: Physics 1. Mr. Colwell and Mr. Thomas

3, 4. **Introductory Physical Laboratory.** I and II. 1 Hr. per semester. Primarily for freshmen. Accompanies and is required of all students who take Physics 1 and 2. Staff

17. **General Laboratory.** I, II. 2 Hrs. Primarily for sophomores and juniors. This course is designed to meet the needs of students who desire more laboratory work than that offered in Physics 3 and 4. Prereq.: Physics 3 and 4. Mr. Molby

Upper Division

105. **General Physics.** I. 4 Hrs. Required of all candidates for engineering degrees and recommended for all students who major in mathematics. Not open to students who have credit for Physics 1. Physics 107 must accompany. Comprises mechanics, sound, and heat. **Prereq.:** trigonometry and analytic geometry.
Mr. Ford, Mr. Holmes, and Mr. Friend

105A. **General Physics.** II. 4 Hrs. A repeat course for those who have failed in Physics 105. Mr. Thomas

106. **General Physics.** II. 4 Hrs. Continuation of Physics 105. Not open to students who have credit in Physics 1 and 2. Covers light, electricity, and magnetism. Physics 108 must accompany.
Mr. Ford and Mr. Holmes

107, 108. **General Physics Laboratory.** I and II. 1 Hr. per semester. A companion course for Physics 105 and 106. Staff

109, 110. **A Problem Course in General Physics.** I and II. 2 Hrs. per semester. Open to students who have taken Physics 1, 2, 3, and 4, or equivalent; not open to students who have taken Physics 105, 106, 107, and 108. Mr. Thomas

113. **Introductory Radio-Telegraphy and Radio-Telephony.** I. 3 Hrs. **Prereq.:** Physics 1, 2, 3, and 4, or equivalent. Mr. Friend

114. **Introductory Radio-Telegraphy and Radio-Telephony.** II. 3 Hrs. Prereq.: Physics 1, 2, 3, and 4, or equivalent. Mr. Friend

116, 216. **Photography.** II. 3 Hrs. For science majors. Mr. Mobly

123. **Electrical Measurements.** I. 3 Hrs. Primarily for juniors. Prereq.: Physics 1, 2, 3, 4, or 105, 106, 107, and 108, and integral calculus.
Mr. Freind

124. **Radio-Telegraphy and Radio-Telephony.** II. 3 Hrs. Open to seniors. Elective for seniors in electrical engineering. Prereq.: Physics 1, 2, 3, and 4, or equivalent, and integral calculus. Mr. Friend

221. **Light.** I. 3 Hrs. Lectures and laboratory work, designed to meet the needs of students in general biology, chemistry, and medicine. Graduate credit will be allowed to those who are not majoring in Physics. Prereq.: Physics 1, 2, 3, 4, and triginometry, or Physics 105, 106, 107, and 108. Mr. Mobly

225, 226. **Introduction to Modern Physics.** I and II. 3 Hrs. per semester. Especially for students majoring in the natural sciences. Open to all seniors. Prereq.: Physics 1, 2, 3, and 4, or 105, 106, 107, and 108, and Mathematics 3 and 4, or equivalent. Mr. Ford

231, 232. **Theoretical Mechanics.** I and II. 3 Hrs. per semester. Open to seniors. Prereq.: Physics 1, 2, 3, and 4, or 105, 106, 107, and 108, and integral calculus. Mr. Colwell

233. **Introductory Electricity and Magnetism.** I. 3 Hrs. Open to seniors. Prereq.: Physics 105, 106, 107, and 108, and integral calculus.
Mr. Holmes

234. **Introductory Electricity and Magnetism.** II. 3 Hrs. Continuation of Physics 233, which is prerequisite. Mr. Holmes

241, 243, 245, 247. Physics Seminar. I. 1 Hr. Open to seniors and graduates. A discussion of modern research in physics. Mr. Colwell

242, 244, 246, 248. Physics Seminar. II. 1 Hr. Similar to Physics 241. Mr. Colwell

249, 250. Intermediate Laboratory. I and II. 2 to 4 Hrs. per semester. Open to seniors who major in physics. Prereq.: Physics 105, 106, 107, and 108, and calculus. Mr. Ford

Graduate Division

381. Physical Optics. I. 3 Hrs. Mr. Molby

382. Physical Optics. II. 3 Hrs. A continuation of Physics 381. Mr. Molby

383. The Kinetic Theory of Gases and Molecular Physics. I. 3 Hrs Prereq.: Physics 1, 2, 3, and 4, or Physics 105, 106, 107, and 108, and integral calculus. Mr. Holmes

384. The Kinetic Theory of Gases and Molecular Physics. II. 3 Hrs. A continuation of Physics 383. Mr. Holmes

391, 392. Advanced Electricity and Magnetism. I and II. 3 Hrs. per semester. Mr. Colwell

397, 398. Research. I and II. 4 to 6 Hrs. per semester. Mr. Colwell and Staff

POLITICAL SCIENCE

Students who expect to select political science as their major subject should, while in the lower division, receive credit for Political Science 4 and 5, History 1, 2, 52, and 53, and Economics 1 and 2 or Sociology 1 and 3. Political Science 4 and 5 constitute the basic work in this department, and they, or their equivalent, are prerequisite to all courses in the upper division. The major requirement is 18 hours of upper division courses. There should be a first minor of 12 hours in upper division courses in history or economics, and a second minor of 6 hours in upper division courses in the other subject. With the approval of the departmental adviser, part of the required work in the major may be taken in the College of Law. Students who are planning to meet the state certification requirements should take Political Science 106.

COURSES SUGGESTED FOR POLITICAL SCIENCE MAJORS

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3); biology (4); French or German (3); History 1 (3); military science (1); physical education (1). Total, 14 or 15 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); botany or zoology (4); French or German (3); History 2 (3); military science (1); physical education (1). Total, 14 or 15 hrs.

SECOND YEAR, FIRST SEMESTER: Political Science 4 (3); French or German (3); History 52 (3); Economics 1 or Sociology 1 (3); Psychology 1 (3); military science or physical education (1); elective (2). Total, 18 hrs.

SECOND YEAR, SECOND SEMESTER: Political Science 5 (3); French or German (3); History 53 (3); Economics 2 or Sociology 3 (3); Philosophy 4 (3); military science or physical education (1); elective (2). Total, 18 hrs.

POLITICAL SCIENCE[1]

Associate Professor FRASURE; Assistant Professor GARWICK; Instructors DELANCY and COHEN

Lower Division[2]

4. The Principles and Practices of Government: The European States System. I. 3 Hrs. Primarily for sophomores.
Miss DeLancy and Mr. Cohen

5. The Principles and Practices of Government: The American Federal System. II. 3 Hrs. Primarily for sophomores.
Miss DeLancy and Mr. Cohen

Upper Division

106. American State and Local Government. I, II. 3 Hrs. Mr. Garwick

107. American City Government. II. 3 Hrs. Mr. Garwick

142. American Constitutional Law: The American Federal System. I. 3 Hrs. Mr. Cohen

143. American Constitutional Law: Fundamental Rights and Immunities. II. 3 Hrs. Mr. Cohen

208. Problems of the Modern State: The Administrative Process. I. 3 Hrs. Mr. Garwick

209. Problems of the Modern State: The Legislative Process. II. 3 Hrs. Mr. Garwick

210. British Government and Practical Politics. II. 3 Hrs. Mr. Frasure

211. New Constitutions of Europe. II. 3 Hrs. Mr. Frasure

216. Comparative Political Institutions. I. 3 Hrs. Mr. Frasure

219. History of Political Thought: Plato to Machiavelli. I. 3 Hrs. Required of majors. Mr. Garwick

220. History of Political Thought: Machiavelli to the Present. II. 3 Hrs. Required of majors. Mr. Garwick

223. International Law. I. 3 Hrs. Mr. Cohen

†245. The Nature of Governmental Powers. I. 3 Hrs. Mr. .....

†246. Judicial Control of Administrative Powers. I. 3 Hrs. Mr. .....

261. International Relations. I. 3 Hrs. Mr. Frasure

262. International Government. II. 3 Hrs. Mr. Frasure

[1]Regular elective for Arts and Sciences students.
[2]These courses are pre-requisite to all upper-division work in the department.
†Omitted, 1937-38.

Graduate Division

301. Methods of Research in Political Science. I. 2 to 4 Hrs. Mr. Frasure

302. Methods of Research in Political Science. II. 2 to 4 Hrs. Mr. Frasure

303. Selected Problems in International Relations. I. 2 to 4 Hrs. Mr. Frasure

304. Selected Problems in International Relations. II. 2 to 4 Hrs. Mr. Frasure

360. Thesis. I and II. 2 to 4 Hrs. Mr. Frasure, Mr. Garwick

PUBLIC SPEAKING

The instruction in this department aims to serve the following ends, which are both cultural and practical: to prepare men and women to meet the ever increasing demand for effective speaking in social, business, and professional life; to prepare qualified teachers in public speaking, debate, reading, and drama in secondary schools and colleges; to train men and women for public life as lecturers, readers, actors, salesmen, demonstrators, etc.; to enlarge the student's oral vocabulary, his ability to think quickly and logically in the presence of an audience; to develop his interpretive and dramatic powers; and to give general cultural training to all who seek greater enjoyment from reading good literature and attending the theatre.

FORENSIC ACTIVITIES. An extensive program of intramural and intercollegiate debate and oratorical contests is fostered by the department in conjunction with Delta Sigma Rho, the honorary forensic fraternity.

PLAYS. The classes in play production give a number of public and semi-public plays each year.

PUBLIC APPEARANCES. Numerous opportunities are afforded advanced students of speech to appear before clubs, schools, churches, and civic associations as speakers, readers, and story tellers. Advanced students and faculty members also present a series of Sunday afternoon recitals.

MAJORS. A minimum of 30 semester hours is required of majors, and 15 semester hours for speech minors. To assist in planning the schedules the following distribution of hours is recommended; to those seeking a teachers' certificate with speech and English as a first teaching subject, and foreign language or social sciences as a second teaching subject, the distribution as shown in column 2 is recommended:

Subject	*Hours*	*Hours*
Speech	30	30
English, journalism, library science	20	28
Foreign languages	16	12 or 20[1]
Social studies	16	40 or 15
Science and mathematics	16	8
Psychology and philosophy	16	0
Physical education	4	6
Electives	10	0
Education	0	20
	128	128–132

[1]Students who enter without foreign language and wish to make it a second teaching subject will be required to take extra hours.

PUBLIC SPEAKING

Professor KAY; Assistant Professors FEAR and LOWTHER

Lower Division

3. Beginning Voice Training. I, II. 3 Hrs. Drills for developing proper breath support and for producing a strong, flexible, resonant voice. Coordination of mind and voice. Mrs. Fear

6. Beginning Acting. I, II. 3 Hrs. Drills for developing muscular control; for overcoming fear inhibitions; for rendering the body expressive of thought and emotion. Coordination of mind and body. Mrs. Fear

11. Effective Speaking. I, II. 3 Hrs. Study and application of the principles of practical public speaking. Practice in the composition and delivery of speeches intended to effect a definite audience response. Parliamentary Law and procedure. Mr. Kay and Staff

Upper Division

ORATORY AND DEBATE

113. Principles of Argumentation and Debate. I, II. 3 Hrs. Mr. Kay

117. Extempore Speaking. II. 2 Hrs. Mr. Kay

118. Public Discussion. II. 2 Hrs. Mr. Kay

120. Advanced Debating. I, II. 3 Hrs. Mr. Kay and Mr. Lowther

215. Advanced Speech Composition. I. 2 Hrs. Mr. Lowther

VOICE AND ORAL INTERPRETATION

121. Advanced Voice and Diction. I, II. 3 Hrs. Includes the study of English phonetics. Mrs. Fear

129. Technique of Oral Interpretation. I, II. 3 Hrs. Mr. Kay

222. Oral Interpretation of Poetry. I. 2 Hrs. Prereq.: Course 129. Mr. Kay

227, 228. Professional Reading. I, II. 2 Hrs. For advanced majors only. Mr. Kay

240. Speech Correction. I. 3 Hrs. The causes and treatment of speech defects. Mr. Lowther

DRAMATIC ARTS

132. Advanced Acting. II. 3 Hrs. Prereq.: Courses 6 and 129. Mrs. Fear

133. Play Producing. I. 3 Hrs. Prereq.: Courses 132 and 137. Mrs. Fear

137. Play Directing. I. 3 Hrs. Prereq.: Courses 132 and 129. Mrs. Fear

139. The Theatre and Theatric Arts. II. 3 Hrs. A critical and historical study of the theatre and theatric arts for the purpose of developing a better understanding and appreciation of the contribution of the theatre to culture. Mrs. Fear

SPECIAL

140, 141, 142. Extra-Curricular Speech Activities. I, II. 1 to 3 Hrs. The head of the department may grant credit for any extra-curricular speech activity which is assigned and directed by a member of the speech faculty.

SPEECH CLINIC. I, II.

Students in speech courses found to possess speech defects will be required to attend the clinic for diagnosis and treatment. In so far as time will permit, the services of the clinic will be made available to any student of the University.

VOICE AND DICTION CLINIC. I, II.

Students in speech courses needing special attention to problems of breathing and voice placing and diction will be assigned to this clinic.

143. Theatre Workshop. I, II. 1 to 3 Hrs. For the production of University plays and the informal stimulation of interest in creative arts. Prereq.: consent of director.

ROMANCE LANGUAGES AND LITERATURES

Courses 1 and 2 or two years of high school credit will be required for entrance to courses 5, 6, 7, and 8. Usually students who have had two years' study of the language in high school should take courses 5 and 6. Students who have done three years of work in high school should take courses 7 and 8.

Prospective major students, and students who expect to do more advanced work in language, should not take more than 6 hours in courses 5, 6, 7 and 8.

Students whose grades have consistently fallen below B in language work in the lower division should not select Romance languages as a major subject.

No student who has not completed French 109, 110, 115, 116, and 231 or Spanish 109, 110, 211, 212, 221, and 222 will be recommended as a teacher of these subjects.

In order to be recommended by this Department for the degree of Bachelor of Arts a student must have completed, in addition to special requirements for the A. B. degree, one of the following combinations:

PROGRAM FOR MAJOR STUDENTS

NOTE: Credit hours are shown in parentheses after course designations.

FRENCH: French 109, 110, 115, 116, 221, and 222 (3 each); 231 (2); Spanish (6 to 12).

SPANISH: Spanish 109, 110, 211, 212, 221, and 222 (3 each); French (9 to 12).

SUGGESTED DISTRIBUTION OF COURSES

FIRST YEAR: One Romance language, 6 hrs.; English 1 and 2 (6); a laboratory science, 8; physical education, 2; military science (when required), 2; electives, 8 to 10 hrs.

SECOND YEAR: Two Romance languages (6 hrs. each), 12 hrs.; military science (when required), 2; electives and lower-division preparation for minor subjects, 18 to 20 hrs.

THIRD YEAR: **French or Spanish 109 and 110** (if not completed in second year) 6 hrs.; French 115 and 116 or Spanish 211 and 212, 6; minor subject and electives, 20 hrs.

FOURTH YEAR: **French or Spanish 221 and 222**, 6 hrs.; French 231 or elective in Spanish, 2; minor subject and electives, 24 hrs.

ROMANCE LANGUAGES AND LITERATURES[1]

Professors STATHERS, DARBY, and SPIKER; Associate Professor MITRANI; Assistant Professor ASHBURN; Instructors MANNING and MCBRIDE

FRENCH

Lower Division

1, 2. Elementary French. I, II. 3 Hrs. per semester. Staff

5. Fiction of the Nineteenth Century. I. 3 Hrs. Staff

6. Drama of the Nineteenth Century. II. 3 Hrs. Staff

7 or 107. Advanced Readings. I. 3 Hrs. Staff

8 or 108. Advanced Readings. II. 3 Hrs. Staff

Upper Division

109. Grammar and Pronunciation. I. 3 Hrs. For sophomores or juniors. Prereq.: 12 hours of French, or equivalent. Staff

110. Advanced Conversation. II. 3 Hrs. For sophomores or juniors. Prereq.: French 109 or equivalent. Staff

115. The Classical School. I. 3 Hrs. Prereq.: 12 hours of French, or equivalent. Mr. Darby and Mr. Spiker

116. The Classical School After Moliere. II. 3 Hrs. Prereq.: French 115. Mr. Darby and Mr. Spiker

217. Civilisation francaise. I. 2 Hrs. Prereq.: French 115 and 116. Mr. Spiker

221. The Romantic Movement. I. 3 Hrs. Prereq.: French 115 and 116. Mr. Stathers

222. French Literature Since 1850. II. 3 Hrs. Prereq.: French 221. Mr. Stathers

†223. The Problem Play. I. 2 Hrs. Prereq.: French 115 and 116. Mr. Darby

†224. Historical Novel in the Nineteenth Century. II. 2 Hrs. Prereq.: French 115 and 116. Mr. Darby

†226. Literary Criticism in the Nineteenth Century. II. 2 Hrs. Prereq.: French 221 and 222. Mr. Spiker

[1]Courses 1 and 2, or two years of high-school credit, will be required for entrance to courses 5, 6, 7, and 8. Usually, students who have had two years' study of the language in high school should take courses 5 and 6. Students who have done three years of work in high school should take courses 7 and 8. No student who has not completed French 109, 110, 115, 116, and 231, or Spanish 109, 110, 211, 212, and 221, will be recommended as a teacher of these subjects.

†Omitted, 1937-38.

†229. **Literature of the Sixteenth Century** I. 2 Hrs. Prereq.: French 115 and 116. Mr. Spiker

230. **The Sixteenth Century After 1550.** II. 2 Hrs. Prereq.: French 115 and 116. Mr. Spiker

231. **Phonetics and Pronunciation.** I. 2 Hrs. Prereq.: 18 hours of French, or equivalent. Mr. Stathers

237. **Moliere.** I. 2 Hrs. Prereq.: French 115 and 116. Mr. Spiker

†243. **Etude du vocabulaire.** I. 2 Hrs. Prereq.: French 109 and 110. Mr. Stathers

†244. **Explication de textes.** II. 2 Hrs. Prereq.: French 109 and 110. Mr. Stathers

275. **Theatre of Eighteenth Century.** I. 2 Hrs. Prereq.: French 115 and 116. Mr. Darby

276. **Voltaire.** II. 2 Hrs. Prereq.: French 115 and 116. Mr. Darby

281. **Topic in Romantic Period.** II. 2 Hrs. Prereq.: French 115 and 116. Mr. Stathers

282. **Topic in Contemporary Period.** I. 2 Hrs. Prereq.: French 115 and 116. Mr. Stathers

Graduate Division

391. **Seminar.** I. 2 to 5 Hrs The origin of French comedy relative to native and foreign elements in its composition. Mr. Spiker

392. **Seminar.** II. 2 to 5 Hrs. The development of the theory of tragedy before the seventeenth century. Mr. Spiker

395. **Seminar.** I. 2 to 5 Hrs. Individual study of some subject chosen from the literature of the first half of the nineteenth century. Mr. Stathers

396. **Seminar.** II. 2 to 5 Hrs. A critical study of some phase of literature of the second half of the nineteenth century. Mr. Stathers

SPANISH

Lower Division

1. **Elementary Spanish.** I. 3 Hrs. Staff

2. **Intermediate Spanish.** II. 3 Hrs. Continuation of Spanish 1. Staff

5. **Contemporary Fiction.** I. 3 Hrs. Staff

6. **Drama of the Nineteenth Century.** II. 3 Hrs. Staff

Upper Division

109. **Grammar and Conversation.** I. 3 Hrs. Mr. Ashburn

110. **Advanced Conversation.** II. 3 Hrs. For sophomores or juniors. Prereq.: Spanish 109, or equivalent. Mr Ashburn

†Omitted, 1937-38.

†115. **Lyric Poetry.** I. 3 Hrs. Prereq.: 12 hours of Spanish, or equivalent. Mr. Ashburn

†116. **Civilization and Culture.** II. 3 Hrs. Prereq.: 12 hours of Spanish, or equivalent. Mr. Ashburn

211. **Nineteenth Century Literature to 1870.** I. 3 Hrs. Prereq.: 12 hours of Spanish, or equivalent. Mr. Ashburn

212. **Spanish Literature Since 1870.** II. 3 Hrs. Prereq.: 12 hours of Spanish, or equivalent. Mr. Ashburn

221. **Literature of the Golden Age.** I. 3 Hrs. Prereq.: 18 hours of Spanish, or equivalent. Mr. Mitrani

222. **The Golden Age after Lope de Vega.** II. 3 Hrs. Prereq.: Spanish 221. Mr. Mitrani

ITALIAN

Lower Division

1. **Elementary Italian.** I. 3 Hrs. Mr. Darby

2. **Intermediate Italian.** II. 3 Hrs. Continuation of Italian 1. Mr. Darby

5. **Contemporary Readings.** I. 3 Hrs. Staff

6. **Advanced Readings.** II. 3 Hrs. Staff

Upper Division

109. **Composition and Conversation.** I. 3 Hrs. Mr. Darby

110. **Advanced Conversation.** II. 3 Hrs. Mr. Darby

†Omitted, 1937-38.

STATE TEACHER-TRAINING AND CERTIFICATION REGULATIONS

RECOMMENDATION FOR TEACHING CERTIFICATES

No person may teach in the public schools of West Virginia who has not been issued a certificate by the State Department of Education. Before any West Virginia University applicant is eligible to receive a State certificate he must be recommended by the Dean of the College of Education as having complied with legal requirements.

STANDARDS FOR CERTIFICATION OF HIGH-SCHOOL TEACHERS

Recommendation will be based upon proper professional attitude, good character, physical competence, fulfillment of both general and special subject-matter requirements[1], specified professional training, a general honor-point average of 1.0 and an honor-point average of 1.0 in each teaching field and in the required number of approved courses in Education[2].

All persons desiring to be certified to teach in high schools in West Virginia must be graduates of standard or approved colleges or universities, except as provided for in the requirements for the special certificate in physical education, art, music, and industrial arts based on a two-year curriculum.[3]

To qualify for a first-class (five year) high-school certificate, a candidate must be prepared in at least two subject groups or high-school teaching fields, as, for example, English and the social sciences.

Holders of first-class certificates may add other fields upon completion, in addition to the work required in two teaching fields, of three-fourths of the total number of hours required for a first-class certificate in each additional field, provided the additional field shall be a minor teaching assignment only[4].

A special certificate for teachers of a single subject may be issued only to applicants who have qualified for a first-class high-school certificate and who have, in addition, completed a minimum of ten graduate hours in the subject named on the certificate and ten hours of graduate work in Education.

No credit earned by correspondence after July 1, 1934, will be accepted by the State Department for certification or by colleges toward graduation of teachers-in-training.

If general academic requirements for certification contain a course which is prescribed in a teaching field, the course may be counted as fulfilling both requirements, but the credit hours thus lost shall be replaced by an approved elective course of equal rank and credit.

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[1]For general academic requirements see page 160 of this Catalogue. For special subject-matter requirements in the various teaching fields, consult "Teacher Training and Certification Regulations" in this Catalogue, pp. 164 to 175; the latest revision of *Teacher Training Bulletin No. 7*, issued by the State Department of Education, Charleston; or the Dean of the College of Education.

[2]These honor-point standards are effective from date for new students and for the remaining courses in any student's program of studies, and apply to all kinds of certificates. Eligibility to do student teaching is subject to the same scholarship standards.

[3]Original special certificates will not be issued after July 1, 1937, but will be renewable.

[4]By special permission of the State High-School Inspector, holders of first-class certificates with library as a third teaching field may be employed full time in the larger schools until the supply of school librarians is adequate to meet demands. Library as a third field requires a minimum of eight hours of school-library training, including practice.

Every person who applies for admission to teacher training must secure from the college physician, or from a physician designated by the college, a certificate stating that the candidate is in good health and free from communicable diseases. Forms for the examination will be furnished by the institution.

New requirements for teacher training and certification shall not be retroactive for any candidate who has registered for teacher training before July 1, 1934. Any candidate may, however, qualify under either the old or the new regulations from above date until September 1, 1937, after which date all who apply for certification shall qualify under the new requirements.

Only the more general regulations of teacher training and certification are included here. Detailed information may be had from the Dean of the College of Education or from the latest revision of *Teacher Training Bulletin No. 7*, issued by the State Department of Education, Charleston.

CERTIFICATION PROCEDURE

Each application for a teaching certificate must be made on the form prescribed by the State Department of Education. The application must contain an official transcript of all required school work. This transcript will be made in the office of the Registrar of the University.

A fee of one dollar is required with each application for a teaching certificate. If the application is approved the fee will be forwarded with it to the State Department of Education. If the application is not approved the fee will be returned to the applicant.

All applications for certificates should be submitted to the College of Education for consideration not later than August 1.

THE GENERAL ACADEMIC REQUIREMENTS FOR ALL FIRST-CLASS HIGH-SCHOOL CERTIFICATES

Subject	*Total Semester Hours Required*
English	8
Public speaking	2
Social sciences	15
Economics	3-6 Hrs.
History	3-6 Hrs.
Political science	3-6 Hrs.
Sociology	3-6 Hrs.
Science	6
Physical education (activities)[1]	4
Health (Phys. Ed. 180 or 276)	2
Preparation for directing one co-curricular activity[2]	2

[1]Military science will not be accepted as physical education. Women may meet the four-hour physical education activity requirement by taking P. E. 1, 2, 3, and 4; men may meet it by taking P. E. 1, 2, and 178.

[2]May be satisfied by a two-hour course from any curriculum or from any elective provided such course gives training which will help in directing co-curricular activities in the high school. Courses now approved are: Biology 101, Forestry 190, Ceramic Engineering 110s, Classics 130, Education 125-6-7-8, English 172, History 149 and 150, Home Economics 138, Journalism 115, Mechanical Engineering 2, 3, 8s, Music 120-1-2-3, 124-5-6-7, and 135-6-7-8, Physical Education 71, 43, 112, 127, 161, and 191, Physics 113, 114 and 116, Public Speaking 133 and 140-1-2, Rural Organization 118, Latin 130, and University Band.

THE TWENTY HOURS OF EDUCATION REQUIRED FOR ALL FIRST-CLASS HIGH-SCHOOL CERTIFICATES

Prescribed:	*Hrs.*
Ed. 106—Introductory Educational Psychology	2–3
Ed. 112—High-School Tests and Measures	2
Ed. 120—Principles of Teaching in Secondary Schools	3
Ed. 150-170—Materials and Methods of High-School Teaching	2
Ed. 214—Advanced Educational Psychology	2
Ed. 224—Student Teaching	3
Electives:	
Ed. 101—Introduction to Vocational Teaching	2
Ed. 109—Secondary Education	2–3
Ed. 150-170—Materials and Methods in another field	2
Ed. 203—Adult Education	2
Ed. 220—Current Practices in Secondary Education	2
Ed. 224—Student Teaching in another field	2
Ed. 231—Philosophy of Education	2
Ed. 233—Educational Sociology	2
Ed. 236—The Curriculum	2–3
Ed. 281—History of Secondary Education	2
Ed. 284—Pupil Personnel Administration	2
Ed. 285—The Junior High School	2

NOTE—Education 106 and 112, being prerequisite to all but one of the other prescribed Education courses, should be completed in the junior year. Education 120, 150-170, and 224 comprise a block which must be pursued simultaneously at University High School during three consecutive morning or afternoon periods throughout one semester of the senior year. Education 214 may be taken any time after Education 106 has been completed. It is recommended that Education 109 be elected, preferably in the junior year. All who wish to be recommended by West Virginia University must take student teaching under its supervision.

CURRICULUM FOR HIGH-SCHOOL PRINCIPALS LEADING TO THE DEGREE OF MASTER OF ARTS[1]

Required:

Ed. 239. Public-School Organization and Administration
Ed. 236. The Curriculum
Ed. 246. Principles of School Supervision
Ed. 327. Practice in the Supervision of Secondary-School Instruction
Ed. 353. The Secondary-School Principal
Ed. 372. Statistical Methods in Education
Ed. 399. Techniques of Educational Research
Ed. 360. Problem in Education
or Thesis

Electives (to be chosen with adviser's approval):

Ed. 214. Advanced Educational Psychology
Ed. 224. Student Teaching
Ed. 231. Philosophy of Education
Ed. 257. Organization and Administration of Vocational Education
Ed. 265. Functional Testing Programs
Ed. 281. History of Education
Ed. 284. Pupil-Personnel Administration

Total, 30 Hours

[1]Completion of this curriculum also fulfills the scholastic requirements for certification in West Virginia as a high-school principal. Other requirements for the high-school principal's certificate are (1) graduation from a standard college or university and qualifications for a first-class high-school teaching certificate and (2) three years of successful high-school teaching or administrative experience. Since most of the courses listed above have prerequisites, the consent of the instructor must be obtained before enrollment.

CURRICULUM FOR SUPERINTENDENTS LEADING TO THE DEGREE OF MASTER OF ARTS[1]

Required:

Ed. 216. Psychology of Elementary-School Subjects
Ed. 231. Philosophy of Education, or Ed. 233, Educational Sociology
Ed. 236. The Curriculum
Ed. 239. Public-School Organization and Administration
Ed. 246. Principles of School Supervision
Ed. 326. Practice in the Supervision of Elementary-School Instruction
Ed. 338. Secondary-School Organization, or Ed. 353, The Secondary-School Principal
Ed. 340. Public-School Finance
Ed. 372. Statistical Methods in Education
Ed. 399. Techniques of Educational Research
Ed. 360. Problem in Education
or Thesis

Electives (to be chosen with adviser's approval):

Ed. 203. Adult Education
Ed. 241. School Buildings and Equipment
Ed. 257. Organization and Administration of Vocational Education
Ed. 343. School Surveys
Ed. 344. Staff-Personnel Administration

Total, 30 Hours

CURRICULUM FOR ELEMENTARY-SCHOOL PRINCIPALS LEADING TO THE DEGREE OF MASTER OF ARTS[1]

Required:

Ed. 236. The Curriculum
Ed. 239. Public-School Organization and Administration
Ed. 246. Principles of School Supervision
Ed. 326. Practice in the Supervision of Elementary-School Instruction
Ed. 356. The Elementary-School Principal
Ed. 372. Statistical Methods in Education
Ed. 399. Techniques of Educational Research
Ed. 360. Problem in Education
or Thesis

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[1]Completion of this curriculum also fulfills the scholastic requirements for the superintendent's certificate. Other requirements for the superintendent's certificate are (1) prerequisite of 20 semester hours of undergraduate Education; (2) a five-year teaching certificate; (3) three years of teaching experience in public schools, or three years as county superintendent in West Virginia, or three years as assistant county superintendent in West Virginia—said experience to be within five years next preceding the date of application for certificate; and (4) a health certificate from a reputable physician, showing physical fitness for duties and freedom from communicable diseases. The superintendent's certificate will be issued for five years and may be renewed as other first-class certificates are.

[1]Completion of this curriculum also fulfills the scholastic requirement for the elementary-school principal's certificate. Other requirements for the elementary-school principal's certificate are (1) graduation from a standard college, and holding a collegiate elementary certificate; (2) three years of successful teaching or administrative experience; and (3) a health certificate from a reputable physician, showing physical fitness for duties and freedom from communicable diseases. The elementary-school principal's certificate will be issued for five years and may be renewed as other first-class certificates are.

Collegiate elementary certificates may be issued to (a) graduates of approved colleges who have completed an approved four-year curriculum for elementary-school teachers; (b) holders of Master's degrees who have had five years of teaching experience in elementary school and who have completed 20 semester hours of English, 27 hours of social studies, 8 hours of science, 2 hours of music, 2 hours of art, and 30 hours of Education, at least 15 of which shall be in the elementary field.

Electives in Education (4 hours required):

Ed. 216. Psychology of Elementary-School Subjects
Ed. 231. Philosophy of Education, or Ed. 233, Educational Sociology
Ed. 265. Functional Testing Programs
Ed. 282. History of Modern Education

Free Electives (to be chosen with adviser's approval)

Total, 30 Hours

CURRICULUM FOR SECONDARY CLASSROOM TEACHERS LEADING TO THE DEGREE OF MASTER OF ARTS AND RECOMMENDATION FOR THE SPECIAL FIVE-YEAR CERTIFICATE AS A SPECIALIST IN A SINGLE TEACHING FIELD

Required:

Graduate courses in Education ..... 10–20 Hours

Suggested Courses ..... 12 Hours

Ed. 203. Adult Education
Ed. 220. Current Practices
Ed. 231. Philosophy of Education
Ed. 236. The Curriculum
Ed. 291. Exploratory Reading
Ed. 360. A Problem in Education

Graduate courses in a recognized teaching field
Required ..... 10–20 Hours

Graduate courses in tributary or supplemental fields
Required ..... 0–10 Hours

Total, 30 Hours

All courses are to be selected by the candidate subject to the approval of his adviser so as to fulfill the above requirements.

CURRICULUM FOR ELEMENTARY-SCHOOL CLASSROOM TEACHERS LEADING TO THE DEGREE OF MASTER OF ARTS

Required:

Ed. 216. Psychology of Elementary-School Subjects
(Other approved courses in this field, e. g., Ed. 308 and/or Ed. 309, may be substituted for Ed. 216)
Ed. 231. Philosophy of Education
Ed. 236. The Curriculum
Ed. 239. Public-School Organization and Administration
Ed. 372. Statistical Methods in Education
Ed. 360. Problem in Education

Electives in Academic Fields (to be chosen with adviser's approval)—12 hours required

Free Electives (in Education or Academic Fields) to complete a total of 30 hours (to be chosen with adviser's approval)

Total, 30 Hours

APPROVED SUBJECT-MATTER CURRICULA

TEACHERS OF AGRICULTURE

TOTAL MINIMUM, 41 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

Min. Hrs.

1. Farm crops (including soils, horticulture, and gardening). Approved: Agronomy 1—Farm Crops (4); 2—Soils (3); 200—Advanced Crops (2); Horticulture 101—Principles (4); 102—Principles (4); *206—Small Fruits Production (2-3); *212—Commercial Fruit Production (2-3) 12

2. Animal husbandry (including dairy and poultry). Approved: An. Hus. 1—An. Nutrition (3); 102—Livestock Prod. and Mgmnt. (5); *138—Livestock Grading and Selection (2); *162—Mutton and Wool Prod. (3); *203—Adv. An. Nutrition (3); *222—Breeding (3); D. Hus. 101—Princ. of Dairying (5); *107—Milk and Public Health (2-3); *123—Dairy Judging (1-2); *222—Milk Production (4); Poult. Husb. 1—Poultry Husbandry (4); *103—Poultry Management (2); *105—Poultry Judging (2) 15

3. Farm economics (including marketing and accounting). Approved: Farm Ec. 2—Farm Economics (3); *104—Farm Management (3); *107—Records and Accounts (2); 131—Marketing Agr. Products (3) 5

4. Farm mechanics. Approved: Farm. Mech. 152—Shopwork (2); 153—Mechanics (3) 5

5. Electives (technical). Any of the above starred courses not offered to satisfy minimum requirements in Groups 1 to 4 4

NOTE—The above curriculum is for non-vocational teachers. For vocational agriculture teachers the certification requirements deviate from the above as follows: In the general academic requirements (see page 160), history 3 hours, political science 3 hrs., economics 3-6 hrs., sociology 3-6 hrs., total social science 15 hrs. Science is increased to 27 semester hours, of which 12 must be in biological science and 15 in physical science. Total agriculture 50 hrs., divided as follows: agronomy 8 hrs., animal husbandry 17 hrs., horticulture 8 hrs., farm economics 8 hrs. Additional approved electives are entomology, genetics, forestry, and animal and plant pathology. Candidates for vocational agriculture certificates should consult an adviser in or the Announcements of the College of Agriculture, from which college they must graduate.

TEACHERS OF BIOLOGY

TOTAL MINIMUM, 30 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

	Hours	
	Max.	*Min.*
Biology		24
1. Biology, Botany, and Zoology. Approved: Biology 1—General (4); Botany 1—General (4); and Zool. 3—General (4), Total 12 hrs.; or Botany 1—General (4); Zool. 1—General (4); Botany 2—General (4); and Zool. 3—General (4), Total 16 hrs.		12–18*

*If courses are offered from botany and zoology, credit should be distributed between the two subjects in approximately equal quantities.

2. Cognates. Approved: Anatomy 1—Anatomy (Max., 4); Animal Pathology 102—Animal Pathology (3); 206—Parasitology (3); Bacteriology 141—General (4); Botany 111—Morphology (4); 130—Systematic (4); 131—Ecology (4); 235S—Field (6); Entomology 102—General (4); 103—Economic (3); 201—Survey of Applied Entomology (3-5); Forestry 180—Farm Forestry (2); 190—Introduction (3); Genetics 111—Elementary (2-3); 221—Advanced (3); Physiology 51 or 151—Human (4); Plant Pathology 103—General (3); Zool. 105—Ornithology (2); 116—Economic (2); Zool. 210—Evolution (3); 231—Comparative Anatomy (4); 261S—Field (6) 6–12

Chemistry (from list approved for chemistry teachers, p. 173 6

TEACHERS OF COMMERCE

TOTAL MINIMUM, 32 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

		Max. Hrs.
1.	Accounting. Approved: Bus. Adm. 101 and 102—Principles (2-3 each); 103—Industrial (2-3)	4–8
2.	Stenography (See NOTE below)	6
3.	Secretarial training and office practice. Approved. Bus. Adm. 108—Office Management (2-3)	5
4.	Commercial law. Approved: Bus. Adm. 141—Business Law (2-3)	2–4
5.	Money, credit, and banking. Approved: Ec. 111 or 211—Money and Banking (2-3); Ec. 114—Business Finance (2-3); Ec. 215—Principles of Investment (2-3)	2–6
6.	Business management. Approved: Ec. 113—Business Organization (2-3); Bus. Adm. 126—Retail Store Management (2-3); 131—Business Management (2-3)	2–4
7.	Sales management. Approved: Bus. Adm. 148—Sales Management (2-3)	2–4
8.	Mathematics of investment or advanced accounting. Approved: Ec. 131—Statistics (2-3); Bus. Adm. 104—Adv. Accounting (2-3); Math. 130—Elem. Theory of Mathematical Statistics (2-3)	2–3
9.	Marketing. Approved: Bus. Adm. 121—Marketing (2-3)	2–4
10.	Advertising. Approved: Journalism 113—General Advertising (2-3)	2–3
11.	Economics. Approved: Ec. 1 and 2—Principles (2-3 each); 21—Economic Development (2-3); 212—Pub. Finance (2-3); 240—Labor Problems (2-3); 241—Prin. of Transportation (2-3)	2–6

NOTE—A maximum of 6 semester hours of credit for certification and for candidates for the degree of B. S. in Ed. one of whose teaching fields is commerce, may be had in shorthand and typewriting upon evidence of proficiency or upon completion of Education 140 and 141. These courses will not count toward the required 20 hours of professional Education.

TEACHERS OF ENGLISH

TOTAL MINIMUM, 34 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

	Hours Max.	Hours Min.
1. Composition and language		9–10
(a) Composition. Approved: Eng. 1 and 2—Comp. and Rhetoric (2-3 each)	6	
(b) Advanced Composition. Approved: Eng. 14—Description and Narration (2); 111—Adv. Comp. (2); 115—Adv. Comp. (2); 221—Adv. Rhetoric (2)	2	
or		
(c) The English language. Approved: Eng. 129S or 230—The Eng. Language (2-3 each)	3	
(d) Exposition. Approved: Eng. 13 or 113—Expository Writing (2 each)	2	
2. Literature		18–19
(a) American literature (required). Approved: Eng. 65—Am. Lit. (2-3); 165—Am. Lit. (3); 166—Am. Fiction (2-3)	2–3	
(b) English literature (3 hours required). Approved: English 3 and 4—Eng. Lit. (2-3 each)	6	
(c) World literature. Approved: Eng. 185—Masterpieces of World Lit. (2)	2	
(d) Contemporary literature. Approved: Eng. 160—Poetry (2); 161—Prose (2); 259—Eng. Lit. 1890-1918 (2); 262—Mod. Drama (2-3)	2	
(e) Bible as literature. Approved: Eng. 181—Lit. of the Bible (2-3)	3	
(f) Shakespeare. Approved: Eng. 142 or 235—Shakespeare (2-3 each)	3	
(g) One author. Approved: Eng. 234—Chaucer (2-3); 263 or 264—One Author (2 each)	2	
(h) Poetry. Approved: Eng. 160—Contemporary Poetry (2); 172—Folk Lore in West Virginia (2); 173 or 273—Poetry (2)	2	
(i) The essay. Approved: Eng. 277—The Essay (2-3)	3	
(j) The novel. Approved: Eng. 276—The English Novel (2-3)	3	
(k) The short story. Approved: Eng. 175—The Short Story (2)	2	
(l) One literary period. Approved: Eng. 241—Sixteenth Century (2-3); 245—Seventeenth Century (2-3); 247 or 248—Eighteenth Century (2-3 each); 249—Romantic Movement (2); 251—Victorian Literature (2)	3	
(m) Drama. Approved: Eng. 261—Aspects of the Drama (2); 262—Modern Drama (2-3); 267—Am. Drama (2)	3	

3. Special activities 6

(a) Public-school library training.* Approved: Education 125 or 126 or 127 or 128—Public-School Library Training (2 each) 2

(b) Public speaking (2 hours required). Approved: Pub. Sp. 3—Beginning Interpretation (2-3); Pub. Sp. 6—Beginning Acting (2-3); 11—Effective Speaking (2-3); 121—Voice and Diction (2-3); 129—Gen. Interpretation (2-3); 133—Play Production (2-3); 137—Play directing (2-3); 213—Arg. and Debate (2-3) 4

(c) Journalism (2 hours required). Approved: Journalism 1 and 2—Newspaper Reporting (2-3 each); Journalism 115—High School Journalism and Student Publications (2) 4

TEACHERS OF FRENCH

TOTAL MINIMUM, 20 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

Max. Hrs.

1. Modern fiction since 1800. Approved: French 5—Fiction of the Nineteenth Century (2-3) 3
2. Drama of the nineteenth century. Approved: French 6—Drama of the Nineteenth Century (2-3) 3
3. Advanced readings. Approved: See NOTE 2 below 6
4. Grammar and pronunciation. Approved: French 231—Phonetics and Pronunciation (2-3) 3
5. Classical School. Approved: French 115—Classical School (2-3); 116—Classical School After Moliere (2-3) 6
6. Oral French. Approved: French 110—Advanced Conversation (2-3). 3
7. French Literature. Approved: See NOTE 2 below 6
8. Civilization and Culture. Approved: French 217—Civilisation Francaise (2) 3

TEACHERS OF GERMAN

TOTAL MINIMUM, 20 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

Max. Hrs.

1. Elementary. Approved: German 1 and 2—Elementary German (2-3 each) 3–6

*Eight semester hours of approved public-school library training qualifies the holder of a first-class high-school certificate for a certificate in library as a third field.

[1]The requirement of 20 hours presupposes two high-school units of entrance credit. High-school credits are evaluated as follows:

2 units in high school and 20 semester hours in college.
1 unit in high school and 25 semester hours in college.
0 units in high school and 30 semester hours in college.

[2]Deficiencies in the total number of hours may be made up by election from courses which must have the previous joint approval of the College of Education and the department of romance languages.

2. Intermediate. Approved: German 3 and 4 or 104—Intermediate German (2-3 each)..... 3–6

3. Oral. Approved: German 111 and 112—Spoken German (2-3 each). 2–3

4. Scientific. Approved: German 121 and 122—Scientific German (2-3 each)..... 3–6

5. Classical. Approved: German 107—Nineteenth Century Drama (2); German 241 and 242—Faust (2-3 each)..... 3–6

6. History of Literature. Approved: German 245 and 246—History of German Literature (2-3 each)..... 3–6

7. History of Language. Approved: German 251 and 252—Development of German Language (2-3 each)..... 3–6

TEACHERS OF HOME ECONOMICS

TOTAL MINIMUM, 36 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

Min. Hrs.

1. Foods and nutrition. Approved: Home Ec. 3, 4 and 107—Food Selection and Preparation (4 each); 108—Group Feeding (2); 215—Nutrition Work with Children (2)..... 10

2. Textiles and clothing. Approved: Home Ec. 17—Textiles and Clothing (4); 115—Clothing Selection (2); 120—Selection and Construction of Clothing (2)..... 8

3. Applied art. Approved: Home Ec. 31—Applied Design (4); 135—Home Planning and Furnishing (4)..... 8–10

4. Home management. Approved: Home Ec. 251—Mechanics of the Home (2); 252—Home Management Lab. (3); 254—Home Management (3)..... 6–8

5. Child care and development. Approved: Home Ec. 222S—Child Psychology (2); 240—Child Development (2)..... 2

TEACHERS OF INDUSTRIAL ARTS

TOTAL MINIMUM, 35 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

Max. Hrs.

1. Drawing. Approved: M. E. 20—Mech. Drawing (3); M. E. 21S—Mech. Drawing (2); M. E. 24—Empirical Design (2); M. E. 26—Descriptive Geometry (3); C. E. 10—Structural Drafting (2)..... 4

2. General shop. Approved: G. 105S[2]—Summer Practice (2); G. 106S[2]—Shop Work (3); G. 107S[2]—Shop Work (2); Farm Mechanics 152—Farm Shop Work (2)..... 2–3

NOTE 1—If biology is elected in combination with home economics, the requirements may be satisfied with 24 hours of biology. Such a combination will entitle the teacher to teach home economics and biology only.

NOTE 2—Science in the General Academic Requirements (p. 160) shall include chemistry for home economics students.

[1]Two units of high-school credit in the required or elective courses listed may be substituted for five semester hours in subjects covering the same material, but will not reduce the total number of hours required for graduation.

[2]Provided the program meets the stipulations of the State Department of Education.

3. Selection of a subject of specialization of not fewer than 12 hours, and a second subject of specialization of not fewer than 8 hours, from the following:

(a) Drawing. Approved: M. E. 21S—Mech. Drawing (2); M. E. 24—Empirical Design (2); M. E. 26—Descriptive Geometry (3); M. E. 29—Mechanism (4); C. E. 10—Structural Drafting (2).

(b) Automobile mechanics. Approved: M. E. 9—Auto Mech. (2).

(c) Printing.[3]

(d) Electrical work. Approved: E. E. 1—Elec. Construction (2); E. E. 101 (or 102 and 103)—Elements of Electrical Engineering (4 each).

(e) Woodwork. Approved: M. E. 1—Pattern Making (1); M. E. 2 and 3 and 101—Woodworking (2 each); M. E. 4—Pattern Making (2); M. E. 8S—Woodfinishing (2).

(f) Machine shop. Approved: M. E. 11—Machine Work (2); M. E. 12—Machine Work (1) or M. E. 13S—Machine Work (3); M. E. 105—Machine Construction (2); M. E. 106—Shop Methods (2-3); M. E. 107—Machine Construction (2-3).

(g) Sheet and art metal.[3]

(h) Forging. Approved: M. E. 7—Welding and Heat Treatment (1).

(i) Trade experience. Approved: G. 105S—Summer Practice[4] (2); G. 106S—Shop Work (3); G. 107S—Shop Work (2).

(j) Mining. Approved: E. M. 101—Mine Surveying (2); E. M. 107—Mining Methods (4); E. M. 251S—Coal Mining (3).

(k) Foundry. Approved: M. E. 4—Pattern Making (2); M. E. 5—Foundry (2); M. E. 103—Foundry Work (2).

(l) Upholstering.[3]

(m) Ceramics. Approved: Ch. E. 110S and 111S—Practical Pottery (2 each); Ch. E. 230—Ceramics (3); Ch. E. 231—Adv. Ceramics Lab. (2); Ch. E. 232—Refractories (2); Ch. E. 233—Glass (2)

(n) Plumbing. Approved: M. E. 10—Pipefitting (1); C. E. 117—Municipal Engineering (2).

(o) Bricklaying.[3]

(p) Weaving.[3]

(q) Home mechanics. Approved: Farm Mechanics 152—Farm Shop Work (2); Farm Mechanics 153—Farm Mechanics (3).

(r) Show-card writing.[3]

(s) Lettering.[3]

(t) Surveying. Approved: C. E. 1—Surveying Practice (2); C. E. 2—Surveying Practice (4); E. M. 101—Mine Surveying (2).

[3]Approved for certification by the State Department of Education, but not offered at West Virginia University.
[4]If not used under Group 2.

TEACHERS OF ITALIAN

TOTAL MINIMUM, 20 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

		Max. Hrs.
1.	Elementary. Approved: Italian 1—Elementary (3)	3
2.	Intermediate. Approved: Italian 2—Intermediate (3)	3
3.	Extensive Readings. Approved: Italian 5—Contemporary Readings (3)	3
4.	Advanced Readings. Approved: Italian 6—Advanced Readings (3)	3
5.	Survey Courses in Literature	2–6
6.	Advanced Composition and Conversation. Approved: Italian 109—Comp. and Conversation (3); Italian 110—Advanced Conversation (3)	2–3
7.	Italian Culture and Civilization	2–3
8.	*Il Risorgimento*	2–3
9.	Italian Novel	2–3
10.	*Divina Commedia*	2–3
11.	Grammar Review	3–4

TEACHERS OF LATIN

TOTAL MINIMUM, 20 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

		Max. Hrs.
1.	Cicero's Orations. Approved: Latin 4—Cicero's Orations (2-3); 203—Roman Oratory (2-3)	3
2.	Vergil's Aeneid. Approved: Latin 6—Vergil's Aeneid (2-3); 235—The Epic (2-3)	3
3.	Drama. Approved: Latin 14—Roman Comedy (2-3); 227—Vulgar Latin—Prose and Verse (2-3); 202—Drama (2-3)	3
4.	Latin composition. Approved: Latin 25—Composition (2-3)	3
5.	Philosophy. Approved: Latin 23—Livy and Cicero (2-3); 236—Philosophy (2-3)	3
6.	Letter Writing. Approved: Latin 21—Roman Letter Writing (2-3)	3
7.	History. Approved: Latin 23—Livy and Cicero (2-3); 234—History (2-3)	3
8.	Poetry. Approved: Latin 22—Sel. from Roman Poetry (2-3); 24—Lyric and Bucolic Poetry (2-3); 231—Satire (2)	3

[1]The requirement of 20 hours presupposes two high-school units of entrance credit. High-school credits are evaluated as follows:
2 units in high school and 20 semester hours in college.
1 unit in high school and 25 semester hours in college.
0 units in high school and 30 semester hours in college.

9. Prose anthology. Approved: Latin 12—Sel. from Roman Prose (2-3); 227—Vulgar Latin—Prose and Verse (2-3) 3

10. Fiction. Approved: Latin 201—The Story and the Novel (2-3) 3

TEACHERS OF MATHEMATICS

TOTAL MINIMUM, 16 HRS.[1]

(Entrance credit, 2½ units)

NOTE: Credit hours are shown in parentheses after course designations.

Max. Hrs.

1. Solid geometry. Approved: Math. 7—Solid Geometry (2) 3

2. College algebra. Approved: Math. 3—College Algebra (2-4) 3

3. Plane trigonometry. Approved: Math. 4—Plane Trigonometry (2); Math. 10—Plane Trigonometry (2-3) 2

4. Plane analytic geometry. Approved: Math. 5—Plane Analytic Geometry (4) 3

5. Solid analytic geometry. Approved: Math. 241—Solid Analytic Geometry (3) 3

6. Calculus. Approved: Math. 107 and 108—Calculus (4 each) 6

7. Mathematical theory of statistics. Approved: Math. 130—Elementary Theory of Mathematical Statistics (2-3) 3

8. Differential equations. Approved: Math. 240—Differential Equations (2-3) 3

9. Spherical trigonometry. Approved: C. E. 1—Surveying (2); Math. 106—Astronomy (2-3) 3

TEACHERS OF MUSIC

TOTAL MINIMUM, 36 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

Max. Hrs.

1. Ear training. Approved: Music 75 and 76—Ear Training (2-3 each) 3

2. Sight singing. Approved: Music 73 and 74—Sight Singing (2-3 each) 3

3. Orchestral instruments. Approved: Music 91, 92, 93, 194, 195, and 196—Orchestra Class (1 each) 5

4. Appreciation and history of music. Approved: Music 140 or 141—History of Music (2-3 each); Music 179—Music Appreciation (2-3); Music 180—Music Appreciation (2-3) or Music 181—Music Appreciation (2) 8

5. Harmony. Approved: Music 1 and 2—Introductory Harmony (2 each) 2

[1]The requirement of 16 hours presupposes 2½ high-school units of entrance credit.

6.	Voice	6
7.	Piano	6
8.	Other courses in music. Approved: Women's Glee Club (1 hr.); Men's Glee Club (1 hr.); University Orchestra (1 hr.)	3

TEACHERS OF PHYSICAL EDUCATION

TOTAL MINIMUM, 30 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

Key: (M)=men; (W)=women

		Max. Hrs.
1.	Health education. Approved: (M. and W.) P. E. 276—Adv. Pub. School Health (2-3)	3
2.	Hygiene. Approved: (M. and W.) P. E. 76—Hygiene (2)	3
3.	Playground and community recreation. Approved: (M. and W.) P. E. 78—Playground and Community Recreation (2-3)	3
4.	Kinesiology (prereq.: anatomy). Approved: (M. and W.) P. E. 175—Kinesiology (2-3)	3
5.	Physiology. Approved: (M. and W.) Physiology 51—Human Physiology (3)	3
6.	Individual gymnastics. Approved: (M.) P. E. 150, (W.) P. E. 166—Individual Gymnastics (2-3 each)	3
7.	Football. Approved: (M.) P. E. 11—Football (1)	1
8.	Basketball. Approved: (M.) P. E. 44—Basketball (1); (W.) P. E. 28A—Athletics, Rhythm, etc. (1)	1
9.	Track. Approved: (M.) P. E. 46—Track and Field Athletics (1); (W.) P. E. 128B—Graded Games, etc. (1/2)	1
10.	Baseball. Approved: (M.) P. E. 14—Baseball (1); (W.) P. E. 28C—Athletics, etc. (1/2)	1
11.	Tumbling. Approved: (M.) P. E. 45—Apparatus and Tumbling (1); (W.) P. E. 127A—First Aid, etc. (1)	1
12.	Scouting. Approved: (M.) P. E. 43—Scoutmastership (1); (W.) P. E. 127B—First Aid, etc. (1)	1
13.	Camping and hiking. Approved: (M. and W.) P. E. 71—Camping and Hiking (1)	1
14.	Games. Approved: (M.) P. E. 12—High-School Activities (1); (W.) P. E. 128A—Graded Games, etc. (1)	1
15.	Athletic training, massage and conditioning, and first aid. Approved: (M.) P. E. 112—First Aid (1); (W.) P. E. 159A—Assisting and Officiating (1)	1
16.	Soccer and speedball. Approved: (M.) P. E. 1—Service Program for Men (1); (W.) P. E. 27A—Athletics, etc. (1)	1

[1]No credit toward certification in physical education shall be allowed for participation in college sports.

17. Marching and calisthenics. Approved: (M.) P. E. 13—Marching, etc. (1); (W.) P. E. 60A—Athletics, etc. (1) 1

18. Advanced practice and officiating (football and basketball). Approved: (M.) P. E. 143—Theory of Coaching, etc. (2); (W.) P. E. 160A—Philosophy of Athletics, etc. (1) 2

19. Folk dancing and clogging. Approved: (W.) P. E. 27B and 28B—Athletics, etc. (1/2 each) 1

20. Postural gymnastics. Approved: (M.) P. E. 150; (W.) P. E. 166—Individual Gymnastics (1 each) 1

21. Field ball and hockey. Approved: (W.) P. E. 159B—Assisting and Officiating (1) 1

22. Archery and tennis. Approved: (M.) P. E. 114—Minor Sports (1); (W.) P. E. 59B—Athletics, etc. (1) 2

23. Natural dancing. Approved: (W.) P. E. 60B—Athletics, etc. (1). 1

24. Aquatic sports. Approved: (W.) P. E. 59A—Athletics, etc. (1)..... 2

TEACHERS OF PHYSICAL AND GENERAL SCIENCE

TOTAL MINIMUM, 39 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

	Hours Max.	Min.
1. Chemistry		16
(a) General and inorganic. Approved: Chem. 1 and 2—General (4 each); Chemistry 3 and 4—Inorganic (4 each); Chem. 9—Inorganic (2)	8–10*	
(b) Qualitative analysis. Approved: Chem. 5 or 105—Qualitative Analysis (4)	4	
(c) Quantitative analysis. Approved: Chem. 6 or 106—Quantitative Analysis (3-5); Chem. 15 or 115—Quantitative Analysis (3)	4	
(d) Food analysis or dairy chemistry. Approved: Chem. 218—Dairy (3); Chem. 222—Food Analysis (3)	3	
(e) Organic. Approved: Chem. 31 or 131, 233—Organic (4 each); Chem. 238—Organic (5)	4	
2. Physics		12
(a) General. Approved: Physics 1 and 2—Introductory (3 each); Physics 3 and 4—Introductory Lab. (1 each); Physics 105 and 106—General (4 each); Physics 107 and 108—Gen. Lab. (1 each); Physics 109 and 110—Problems (2 each); Physics 235S and 236S—Demonstrations in Physics (2 each); Physics 251S and 252S—Survey (3 each)	10	
(b) Radio telegraphy and telephony. Approved: Physics 113, 114, 123, and 124—Radio Tel. and Tel. (3 each); Physics 237S and 238S—Radiotelephony (2 each)	6	

*Students who have had Chem. 1 and 2 may not take Chem. 3 and 4. Chem. 9 may follow Chem. 1 and 2, but is not acceptable for those students who have had Chem. 3 and 4.

(c) Photography. Approved: Physics 116—Photography (3) 2

(d) Light. Approved: Physics 221—Light (3) 3

3. Biology (from courses approved for biology teachers, page 164) 8

4. Geology. Approved: Geol. 1—Physical (4); Geol. 2—Minerals and Rocks (4); Geol. 3—Historical (3-4); Geol. 11—Economic (3-4); Geol. 108—Natural Resources and Geol. of W. Va. (2-3) 3

TEACHERS OF SOCIAL SCIENCE

TOTAL MINIMUM, 40 HRS.

NOTE: Credit hours are shown in parentheses after course designations.

	Hours Max.	Min.
1. History		18 Hrs.
(a) European. Prescribed: Hist. 1 and 2—Modern Europe (2-3 each). Elective: Hist. 106—Medieval; 107—French Revolution; 108—Napoleonic Era; 114—Renaissance and Reformation; 242—Contemporary Europe (2-3 each)	6	
(b) American. Prescribed: Hist. 52 and 53—United States (2-3 each); Hist. 149—Western Virginia (2-3)[1] or 150—West Virginia (2-3)[1]. Electives: Hist. 151—Am. Colonial; 257—The Old South (2-3); 258—Recent American History (2-3 each)		12 Hrs.
2. Political Science. Prescribed: Pol. Sci. 5—Am. Fed. Gov't. and 106—Am. State and Local Gov't. (2-3 each). Electives: Pol. Sci. 4—Principles and Practices: The European States System; 107—American City Gov't.; 216—Comparative Political Institutions; 261—International Relations; 262—International Government (2-3 each)		6 Hrs.
3. Economics		6 Hrs.
(a) Principles. Approved: Econ. 1 and 2—Principles (2-3 each)	6	2
(b) Economic labor and industrial problems. Approved: Econ. 240—Labor Problems; 241—Transportation; 244—Public Utilities (2-3 each)	4	2
4. Sociology. Approved: Soc. 1 or 101—Introduction (2-3); 3 or 103—Rural (2-3); 105—Urban (2-3); 108—Child Welfare (2); 210—The Family (2-3); 231—Race Problems (2-3); 233—Crime and Delinquency (2-3); 241—Community Organization (2-3); Rural Organization 101—Problems of Rural Organization (2); 233—Rural Org. (2-3); Sociology 251—Contemporary Social Problems (2-3)		4 Hrs.
5. Geography. Approved: Geo. 7—Introductory Geography (3-4); 109—Economic Geography (2); 116—Geography of North America (3)		6 Hrs.

[1]A maximum of 3 hours of West Virginia history may be counted as American history.

TEACHERS OF SPANISH

TOTAL MINIMUM, 20 HRS.[1]

NOTE: Credit hours are shown in parentheses after course designations.

	Max. Hrs.
1. Modern fiction (since 1800). Approved: Spanish 5—Contemporary Fiction (2-3)	3
2. Drama. Approved: Spanish 6—Drama of the Nineteenth Century (2-3).	3
3. Grammar and conversation. Approved: Spanish 109—Grammar and Conversation (2-3)	3
4. Oral. Approved: Spanish 110—Advanced Conversation (2-3)	3
5. Literature. Approved: Spanish 211—Nineteenth Century Lit. to 1870 (2-3); 212—Spanish Lit. Since 1870 (2-3)	6
6. Civilization and Culture. Approved: Spanish 116—Civilization and Culture (2-3).	3
7. The Golden Age. Approved: Spanish 221—Lit. of the Golden Age (2-3); 222—The Golden Age after Lope de Vega (2-3)	6

[1]The requirement of 20 hours presupposes two high-school units of entrance credit. High-school credits are evaluated as follows:

2 units in high school and 20 semester hours in college.
1 unit in high school and 25 semester hours in college.
0 units in high school and 30 semester hours in college.

THE COLLEGE OF EDUCATION

FUNCTIONS

The order of the Board of Governors creating the College of Education gives it "full control in the University of all professional teacher preparation, directive control in the University of all academic teacher preparation, and full control in the University in recommending to the State Department of Education for the certification of teachers, principals, supervisors, and superintendents."

Through its undergraduate and graduate courses, its seminar, its laboratory school[1], and its encouragement and direction of educational investigation and research, the College of Education aims to contribute to the educational efficiency of West Virginia by inculcating a liberal and more scientific conception of the functions of the public schools of the state and by directing the academic preparation and providing the professional training of secondary-school teachers, secondary-school principals, secondary-school supervisors, elementary-school principals, elementary-school supervisors, city-school administrators, county superintendents, college teachers, educational counselors, and educational research specialists.

ORGANIZATION

The College of Education comprises the College with its resident courses of instruction and its facilities for research and the University Demonstration High School with its opportunities for observation, student teaching, directed supervision, and experimentation.

LOWER-DIVISION ADVISERS

All freshmen and sophomores who plan to be teachers will indicate their intention when they register. They will report to Professor Elizabeth Stalnaker to be advised by her or to be directed to the appropriate adviser.

TRANSFER STUDENTS

Applicants from junior colleges, normal schools, teachers colleges, colleges, other universities, or other colleges within this University, will, upon receipt of official transcript, be admitted to this College with equal standing, provided the transcript shows graduation from a standard high school and the completion of 58 semester hours of approved freshman and sophomore work with an average of at least 1 honor point per credit hour. Students from other colleges who contemplate transferring to this college should so order their courses of study as to meet junior standing and should fulfill the curricular requirements for the certification of teachers.

ADMISSION TO THE COLLEGE OF EDUCATION

The requirements for admission to the College of Education are (1) graduation in any approved curriculum in a first-class high school and (2)

[1]The University Demonstration High School.

fifty-eight semester hours of approved college work with an average of at least 1 honor point per credit hour.

A student with 15 units of approved high-school work may enter the University, but before he may enter the College of Education he must make up an additional unit in order to comply with the teacher-training regulations of the State Department of Education.

UPPER-DIVISION ADVISERS

Each junior and senior enrolled in the College of Education will be assigned an adviser according to the student's teaching field of major interest. The adviser will direct both his academic and his professional courses of study toward graduation and eligibility for certification.

REQUIREMENTS FOR GRADUATION

To be eligible for recommendation for the degree of Bachelor of Science in Education a candidate must:

1. Comply with the general regulations, as announced in the General Information section (Part II) of this Catalogue, concerning entrance, advanced standing, classification, examination, marks, honor points, etc.

2. Satisfy the General Academic Requirements for certification, listed on page 160.

3. Complete the required 20 semester hours of approved courses in Education, listed on page 161.

4. Select and pursue two teaching fields.

5. Adhere to the approved courses, listed on pages 164 to 175, in completing the prescribed number of hours of subject matter in each teaching field.

6. Present 128 semester hours of approved college credit, with a general average of 1 honor point per credit hour, and with an average of 1 honor point per credit hour in each teaching field and in Education. (Only credit earned in West Virginia University will be used in computing honor points for graduation.) At least 100 of the 128 hours must be in academic subjects. The candidate must have been enrolled in the College of Education for at least 26 credit hours.

7. Be at least 18 years of age, of good moral character, interested in educational work, and mentally and physically qualified to perform the duties of a teacher.

Fulfillment of the requirements for graduation from the College of Education qualifies a candidate to apply for recommendation for a first-class State high-school teaching certificate in at least two approved teaching fields. For instructions on applying for a State certificate, see page 160.

COURSES OF INSTRUCTION

Professor Emeritus DEAHL; Professors ALLEN, BALDWIN, RACHEL H. COLWELL, L. B. HILL, HUDELSON, POLLOCK, STALNAKER, STEMPLE, and WHEAT; Associate Professors OLNEY and PARSONS; Assistant Professor COLEBANK; Instructors CLINE, COOK, COPLIN, COZINE, CUBBON, DOLE, FEDERER, LAWRENCE, SOUPART, and WILT; Teachers BOGGESS, BOWLBY, BRYAN, DAVIS, HANDLAN, MEREDITH, NEILL, PAFF, PERDUE, TALBOTT, WOOFTER, WOTRING, WHITE, and ZIMMERMAN.

NOTE: For the kinds of certificates for which each of the following courses is required or approved see pages 161 to 163.

Undergraduate Division

101. **Introduction to Vocational Teaching.** II. 2 Hrs. A survey of the fields of vocational education as a part of the complete educational program. Mr. Allen

106. **Introductory Educational Psychology.** I, II. 3 Hrs. Should be taken in junior year. Mr. Allen, Mr. Hill, Miss Pollock, and Mr. Wheat

109. **Secondary Education.** I, II. 3 Hrs. Introduction to high-school organization. Mr. Stemple

112. **Educational Tests and Measures.** I, II. 2 Hrs. Testing at secondary level. Prereq. or parallel: Ed. 106. Mr. Stemple and Mr. Wheat

120. **Principles of Teaching in Secondary Schools.** I, II. 3 Hrs. Open only to those who qualify for student teaching (Ed. 224). Miss Pollock, Mr. Hill, and Mr. Allen

125. **Public-School Library Training.** I. 2 Hrs. Organization and administration of public-school libraries. Miss Lawrence

126. **Public-School Library Training.** II. 2 Hrs. Instruction and practice in classifying, indexing, and cataloguing school libraries. Miss Lawrence

140. **Stenography and Typewriting.** I. 3 Hrs. Mr. Zimmerman

141. **Stenography and Typewriting.** II. 3 Hrs. Mr. Zimmerman

150, 170. **Materials and Methods of High-School Teaching.** Special methods in the various secondary-school teaching fields. These courses are to be taken simultaneously with Student Teaching (Ed. 224) and Principles of Teaching in Secondary Schools (Ed. 120).

The various sections of this course, with their instructors, follow:

150.	**Biology.** I, II. 2 Hrs.	Mr. Allen
151.	**Science.**[1] I, II. 2 Hrs.	Mr. Allen
152.	**Physical Education.** I, II. 2 Hrs.	Mr. Cubbon and Mrs. Dole
160.	**Agriculture.** I, II. 3 Hrs.	Mr. Cline
161.	**English.** I, II. 2 Hrs.	Miss Soupart
162.	**Foreign Language.** I. 2 Hrs.	Staff
163.	**Home Economics.** I, II. 2 or 3 Hrs.	Miss Cozine
164.	**Industrial Education.** I. 2 Hrs.	Mr. Bowlby
165.	**Mathematics.** I, II. 2 Hrs.	Miss Wilt

166. **Physical Science.** I, II. 2 Hrs. Mr. Federer

167. **Social Science.** I, II. 2 Hrs. Miss Coplin

168. **Art.** I, II. 2 Hrs. Miss Meredith

169. **Music.** I, II. 2 Hrs. Mr. Paff

170. **Commerce.** I, II. 2 Hrs. Mr. Zimmerman

203. **Adult Education.** II. 2 Hrs. The problem of devising techniques of organizing and conducting classes for adults. Mr. Allen

214. **Advanced Educational Psychology.** I, II. 2 Hrs. Not open to juniors. Open for graduate credit only to those with 6 semester-hours of previous work in psychology and/or educational psychology. Prereq.: Ed. 106. Mr. Baldwin and Mr. Wheat

220. **Current Practices in Secondary Education.** II. 2 Hrs. An advanced course in modern teaching procedures. Prereq.: Ed. 106 and 112, teaching experience, and consent of instructor. Miss Pollock

224. **Student Teaching.** I, II. 3 to 5 Hrs. Students who are selected for student teaching and who register for the course will simultaneously register for Ed. 150-170 and for Ed. 120. These three courses will be offered at the University Demonstration High School and will total 8 hours of credit. One half of the students should reserve a full half day each morning and the other half should reserve the entire afternoon for this work. Prereq.: completion of approximately 75% of the hours required in two teaching fields and 40 to 60% of the hours required in Education. Each student teacher will be required to have, upon entrance to these courses, an honor-point average of at least 1.0 in each teaching field and in Education. Application for registration in this block of courses should be made to Mr. L. B. Hill early in the preceding semester.
Mr. Allen, Mr. Hill, Miss Pollock, Mr. Colebank, and Staff

231. **Philosophy of Education.** I. 2 Hrs. Mr. Baldwin

233. **Educational Sociology.** II. 2 Hrs Mr Baldwin

236 **The Curriculum.** II. 3 Hrs. Prereq.: Ed. 106. Open only to seniors and graduates. Mr. Stemple

239. **Public-School Organization and Administration.** I. 3 Hrs. An orientation course for present and prospective school administrators, with emphasis upon the problems which grow out of the county unit. Required as a basic course of all who specialize in educational administration. Prereq.: 20 hours of Education and consent of instructor. Mr. Baldwin

241. **School Buildings and Equipment.** I. 2 Hrs. Prereq. or parallel: Ed. 239 and consent of instructor. Mr. Baldwin

246. **Supervision of Instruction.** I. 2 Hrs. A basic course dealing with the general principles of elementary-school, junior high-school, and senior high-school supervision as applied to the sifted content of each subject. Mr. Hill

257. **Organization and Administration of Vocational Education.** I. 2 Hrs. Prereq.: Ed. 239. Mr. Allen

262. **Vocational Home Economics in Secondary Schools.** I. 2 Hrs. Prereq. or parallel: Ed. 120, 163, and 224; home economics, 25 hours. Primarily for seniors and teachers of home economics. Miss Colwell

[1]A special section available as an elective for those selecting some science as a second or third teaching field. All branches of science are considered. Registration not necessarily concurrent with Ed. 120 and 224.

263. **Vocational Education for Special Groups.** I. 2 Hrs. Techniques of organizing and conducting part-time and evening classes, continuation schools, and similar enterprises. Mr. Allen

281. **History of Secondary Education.** II. 2 Hrs. Mr. Hill

282. **History of Modern Education.** I. 2 Hrs. A critical study of the fundamental forces that have determined the educational progress of the western world since the Renaissance. Miss Pollock

284. **Pupil-Personnel Administration.** I. 2 Hrs. Pupil accounting, guidance, extra-curricular activities, and control, Prereq.: Ed. 106. Open only to seniors and graduates. Mr. Stemple

285. **The Junior High School.** I. 2 Hrs. Prereq.: Ed. 106. Open only to seniors and graduates. Mr. Stemple

290. **Advanced Course for Teachers of English.** II. 2 Hrs. Prereq.: Consent of instructor. Miss Pollock

291. **Exploratory Reading.** I. 2 Hrs. Designed especially for prospective teachers of the social sciences and English, but open, with the consent of the instructor, to all seniors and graduates preparing to teach. Miss Pollock

Graduate Division

308. **Psychology of Arithmetic.** I. 2 Hrs. Mr. Wheat

309. **Psychology of Reading.** II. 2 Hrs. Mr. Wheat

327. **Demonstration and Practice in the Supervision of Secondary-School Instruction.** II. 3 Hrs. Prereq.: Consent of Instructor. Mr. Hill

338. **Secondary-School Organization.** I. 2 Hrs. Prereq.: 20 hours of Education and teaching experience. Mr. Stemple

340. **Public-School Finance.** II. 3 Hrs. Prereq. or parallel: Ed. 239 and consent of instructor. Mr. Baldwin

343. **School Surveys.** I. 2 Hrs. The development of the educational survey as an instrument for effecting progressive educational procedure. Prereq. or parallel: Ed. 239 and consent of instructor. Mr. Baldwin

344. **Staff-Personnel Administration.** II. 2 Hrs. Selection, induction, direction, evaluation, improvement, and promotion of members of the supervisory, instructional, research, clerical, and maintenance staffs. Prereq. or parallel: Ed. 239 and consent of instructor. Mr. Baldwin

353. **The Secondary-School Principal.** II. 3 Hrs. Open only to graduate students in Education with teaching experience in high schools. Mr. Stemple

360. **Problems in Education.** I, II. 1 or 2 Hrs. Prereq.: consent of graduate adviser. Staff

372. **Statistical Methods in Education.** I. 2 Hrs. Prereq.: 20 hours of Education, including Ed. 112 or equivalent. Mr. Hudelson

399. **Techniques of Educational Research.** II. 2 Hrs. Prereq.: or parallel: Ed. 372. Mr. Hudelson

Thesis. I, II. 1 to 4 Hrs. Candidates for the Master's degree in Education may, with the consent or upon the recommendation of the graduate adviser, drop Ed. 360 and enroll for a thesis with a higher maximum of credit. One course or the other is required. Staff

THE COLLEGE OF ENGINEERING AND MECHANIC ARTS

THE SCHOOL OF MINES

ORGANIZATION

The College of Engineering and Mechanic Arts:

For the purpose of administration and instruction, the College of Engineering and Mechanic Arts is organized into the following departments or groups of departments:

The department of chemical engineering (Ch. E.)
The department of civil engineering (C. E.)
The department of electrical engineering (E. E.)
The mechanical engineering group (M. E.), comprising the following:
Department of drawing, machine design and construction, and industrial engineering
Department of power engineering
The department of mechanics (M.)

A few courses of instruction, not included in the work of any particular department, are designated as General (G.)

The descriptive material appearing on the pages which follow outlines the requirements for the various degrees in engineering. A statement setting forth the organization and purposes of the College of Engineering and Mechanic Arts, including the work of the Engineering Experiment Station, appears on pages 33 and 34.

The School of Mines:

All the mining and industrial extension work of the University is organized under the School of Mines. For the purpose of administration the school is divided into the following divisions:

The department of mining engineering (E. M.)
The department of mining and industrial extension

The descriptive material appearing on pages 181 and 192 to 196 outlines the requirements for the four-year course leading to the degree of Bachelor of Science in Engineering of Mines, as well as the five-year combined course leading to the degrees of Bachelor of Science at the end of the fourth year, and Bachelor of Science in Engineering of Mines at the end of the fifth year.

The department of mining and industrial extension of the School of Mines conducts courses of instruction in practical subjects pertaining to the every-day work of various groups and industries in centers where a sufficient number requests the courses. Conferences on water-purification, fire-prevention, meter-reading, and other subjects are sponsored by the department at stated intervals. A more comprehensive description of the work of the department of mining and industrial extension, including the Short Course in Coal Mining and vocational courses offered during the summer session and in extension, appears on pages 39 to 41.

BACCALAUREATE DEGREES

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, special students, requirements as to residence, classification of students, examinations, and grades, as set forth in the General Information section (Part II) of this Catalogue.

To receive any of the baccalaureate degrees conferred in the College of Engineering or the School of Mines the student must have satisfied all the entrance requirements and, except in the case of the five-year curricula, must have received credit for 150 hours.[1] In chemical engineering, electrical engineering, and mechanical engineering, a summer term equivalent to 5 hours, three of which shall be in residence and two in outside practice, are included in the 150 hours. For civil engineering students and mining engineering students a five weeks' residence course in surveying, for which 5 hours of credit are given, is required in the summer following the second year as a part of the total requirement for the 150 hours.

SUBSTITUTIONS

The following substitutions are regularly allowed in addition to special substitutions listed elsewhere: M. E. 24 for C. E. 10; Chemistry 5, 6, or 15 (2 to 5 hours) for Chemistry 10; Chemistry 10, 15, or 107 for 2 hours of Chemistry 5 or 6; Economics 1 and 2 or 1S and 2S for Economics 103; Economics 111 or 111S for Economics 110.

CREDIT FOR WORK DONE OUT OF RESIDENCE

Before selecting his job for credit in G. 105S the student should consult with his adviser. He should keep a detailed record of his work and observations along engineering and industrial lines and secure from his employer a letter stating the length of time employed. To receive credit he shall register at the beginning of the semester following completion of the work and shall write a complete and satisfactory report and submit it to his adviser.

THESIS

Any candidate for a baccalaureate degree in engineering may with the consent of his major professor prepare a thesis on some subject relating to a special branch of engineering or other department of applied science. It

[1]Students matriculating with 58 or more hours of credit may graduate with 148 hours, since physical education is not required of such students.

will be presented for approval first to the instructor under whose guidance it has been prepared, then to the head of the department in which the degree is to be conferred. A typewritten copy of the thesis prepared in accordance with official specifications and signed by both the instructor in charge and the head of the department, must be placed in the University library before graduation.

COLLEGE OF ENGINEERING CURRICULA

1. A four-year curriculum leading to the degree of Bachelor of Science in Chemical Engineering, with options in metallurgy and ceramics.

2. A four-year curriculum leading to the degree of Bachelor of Science in Civil Engineering, with option in sanitary engineering.

3. A four-year curriculum leading to the degree of Bachelor of Science in Electrical Engineering.

4. A four-year curriculum leading to the degree of Bachelor of Science in Mechanical Engineering.

5. Combined science and engineering curricula extending over five or more years leading to the degrees of Bachelor of Science, and Bachelor of Science in Engineering.

FRESHMAN SCHEDULE

In order to permit all students in the College of Engineering and the School of Mines to have a year in which to find out definitely what courses they wish to pursue, the first year of all engineering curricula is made uniform. To assist the student in making an intelligent choice, a series of weekly lectures is given throughout the first semester explaining the work of the several branches of engineering.

FIRST YEAR

(Identical for all engineering and mining courses)

First Semester	*Hrs.*	*Second Semester*	*Hrs.*
Eng. 1—Comp. and Rhet.	3	Eng. 2—Comp. and Rhet.	3
Math. 3—College Algebra	4	Math. 5—Analytical Geom.	4
Math. 4—Plane Trig.	2	Chem. 4—Inorganic Chem.	4
Chem. 3—Inorganic Chem.	4	Mil. 2—Military Science	1
Mil. 1—Military Science	1	P. E. 2—Ser. Prog. (Men)	1
P. E. 1—Ser. Prog. (Men)	1	C. E. 1—Surveying	2
M. E. 20—Mechanical Draw.	3	M. E. 26—Descriptive Geom.	3
G. 1—Engineering Lectures			
	18		18

CHEMICAL ENGINEERING

The object of the four-year course in chemical engineering is to qualify young men, to design, build, and manage manufacturing plants in which the products of manufacture are based on chemical processes, and to fit men for professional employment as industrial chemists and chemical engineers.

The curriculum outlined on the following page includes fundamental courses in inorganic, analytical, organic, and physical chemistry; in shop practice, mechanical drawing, and chemical plant design; in physics, theoretical and applied mechanics, mechanical, and electrical engineering; in mineralogy, metallurgy; and in industrial chemistry and chemical engineering. This curriculum is designed to give the student a thorough knowledge of the basic principles of those subjects which experience has shown are essential to one entering the chemical engineering profession.

Students taking Chemistry 10 (2 hrs.) in the summer session may take chemistry 6 (5 hrs.), or chemistry 6 (3 hrs.) and Ch. E. 102 (2 hrs.), in the second semester of their second year; all other chemical engineering students will take Chemistry 6 (5 hrs.). By taking Chemistry 10 or 15 (2 hrs.) in the summer session a student may complete the 150-hour requirement with an option of 4 instead of 6 hours in his fourth year. These options are in four groups: chemical, ceramic, metallurgical, and commercial engineering. Thesis subjects will usually be selected from the problems related to the development of the natural resources of West Virginia as foundations for chemical industries.

Students preparing to take the course in chemical engineering should present German for entrance. A student may secure a broader training in language, economics, history, science, applied chemistry, and engineering by taking the combined Bachelor of Science and Engineering course. By a careful selection of electives both degrees may be secured in five years.

METALLURGY OPTION. Students electing the metallurgy option in chemical engineering should take the following courses as their fourth year electives: Ch. E. 211 (3 hrs.), Ch. E. 232 (2 hrs.), Ch. E. 222 (2 hrs.), and Ch. E. 223 (2 hrs.). Ch. E. 124 (2-5 hrs.) may be offered in place of one of the above courses by students who have shown marked ability along metallurgical lines.

CERAMIC OPTION. Students electing the ceramic option in chemical engineering should substitute Ch. E. 211 (3 hrs.) for C. E. 115 (3 hrs.) and Ch. E. 230 (3 hrs.) for Ch. E. 201 (3 hrs.). In addition, they should take Ch. E. 231 (2 hrs.), Ch. E. 232 (2 hrs.), and Ch. E. 233 (2 hrs.) as their senior electives, but students showing marked ability in ceramics may offer Ch. E. 124 (2-5 hrs.) in place of either of these three courses. Students electing the ceramic option will be required to do their G. 105S in some approved ceramic industry.

CURRICULUM IN CHEMICAL ENGINEERING

Leading to the Degree of Bachelor of Science in Chemical Engineering

FIRST YEAR: See curriculum on page 183.

SUMMER SESSION FOLLOWING FIRST YEAR

	Hrs.
M. E. 10—Pipe Fitting	1
M. E. 11—Machine Work	2
Chem. 10—Quantitative Analysis—Optional	2

SECOND YEAR

First Semester	Hrs.	*Second Semester*	Hrs.
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Chem. 5—Qual. Analysis	4	Chem. 6—Quant. Analysis	3 or 5
Mil. 3—Military Science	1	Ch. E. 102—Blow-pipe and Assay.	2 or 0
M. E. 5—Foundry	2	Mil. 4—Military Science	1
M. E. 24—Empirical Design	2	M. 101—Statics	3
	18	E. M. 106—Mineralogy	1
			19

G. 105S—Summer Practice—Out of Residence 2

THIRD YEAR

Chem. 233—Organic Chem.	5	Chem. 261—Physical Chem.	3
Chem. 260—Physical Chem.	3	C. E. 115—Hydraulics	3
E. M. 202—Coal Lab.	1	M. E. 29—Mechanism	4
M. 102—Mech. of Materials	4	M. E. 122—Mechanical Lab.	2
M. 103—Materials Test Lab.	1	M. 104—Kinetics	3
M. E. 221—Thermodynamics	3	Ch. E. 201—Benzene Deriv.	3
G. 101—Eng'g. Society	½	G. 102—Eng'g. Society	½
	17½		18½

FOURTH YEAR

Econ. 103—Prin. of Economics	3	Eng. 186—English	1
E. E. 110—Elements of E. E.	5	M. E. 111—Machine Design	2
Ch. E. 205—Chem. Eng'g. and Manufactures	3	Ch. E. 207—Chem. Eng'g. and Manufactures	3
Ch. E. 206—Ind. Chem. Lab.	2	Ch. E. 208—Chem. Eng'g. Lab.	2
Ch. E. 220—Metallurgy	2	Ch. E. 209—Chemical Plants	2
Ch. E. 221—Metallurgy Lab.	1	Ch. E. 210—Electro-Ch. Ind.	3
G. 103—Eng'g. Society	½	G. 104—Eng'g. Society	½
Electives—(see below)	2	Inspection Trip	
		Electives—(see below)	2 or 4
	18½		17½

Electives

Ch. E. 101, 102, 124, 202, 211, 212, 222, 223, 230, 231, 232, 233	2 to 5	M. E. 222—Heat Engines	3
E. E. 214—Ind. App. of Elec.	3	M. E. 223—Power Plant Design	3
M. E. 7—Welding and Heat Treatment	1	C. 110—Business Law	3
M. E. 112—Machine Drawing	2	Geol. 1—General Geology	3
M. E. 207—Industrial Eng'g.	3	Econ. 110—Money, Cr. and Bk.	2
		Chem. 107, 238, 252, 262	2 to 5

CIVIL ENGINEERING

The course in civil engineering has been planned to give a broad education in those general and scientific subjects which form the foundation of all engineering, and a special training in the field of civil engineering.

Civil engineering includes plane, topographic, and geodetic surveying, which has to do with measurements of land surfaces; highway and railway engineering, which have to do with the building and maintenance of highways and railways, respectively, as well as the construction of tunnels, subways, and other special engineering projects; sanitary and municipal engineering, comprising the construction and operation of sewers, sewerage purification works, water supply systems, water purification plants, and garbage disposal systems; structural engineering, comprising the construction of bridges, buildings, foundations, docks, walls, piers, and other fixed structures; and hydraulic engineering, comprising the development of water power, the building of harbors, river improvements, and irrigation works.

During the first two years emphasis is placed on those subjects underlying all engineering, such as English, mathematics, chemistry, physics, drawing, and surveying. These subjects are taught not as an end in themselves, but rather as a tool for the solution of engineering problems. The teaching is done by means of recitations, drawing room work, laboratory work, and field work. During these first two years instruction is also given in military training and in physical education, in order to keep the student physically fit.

In the third and fourth years the application of these basic sciences is made to the solution of engineering problems. Breadth of training is furnished by courses in mechanics, economics, bacteriology, geology, electricity, and heat engineering. Depth of training is furnished by professional work in highway, railway, sanitary, structural, and hydraulic engineering.

The professional field is so wide that the whole cannot be covered in a four-year course. For this reason, during the latter part of the course certain options are offered. In addition to the sanitary option, outlined below, the student is offered a choice of one of two options in the second semester of the fourth year, one of which devotes more time to the subject of highway engineering, and the other to the subject of hydraulic engineering.

OPTIONAL COURSES IN SANITARY ENGINEERING

Students in civil engineering who desire to specialize in sanitary engineering are required to make the following substitutions:

Fourth year—first semester, C. E. 202, (3 hrs.) for C. E. 103, (3 hrs.); second semester, C. E. 203, (3 hrs.) for C. E. 204, (3 hrs.), C. E. 117, (2 hrs.) and Ch. E. 202, (2 hrs.) for 4 hours of elective subjects.

CURRICULUM IN CIVIL ENGINEERING

Leading to the Degree of Bachelor of Science in Civil Engineering

FIRST YEAR: See curriculum on page 183.

SECOND YEAR

First Semester	*Hrs.*	*Second Semester*	*Hrs.*
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Chem. 10—Quan. Analysis	2	Geol. 1—General Geology	4
Mil. 3—Military Science	1	Mil. 4—Military Science	1
C. E. 2—Surveying	4	C. E. 3—Railroad Curves	2
C. E. 10—Struct. Drafting	2	M. 101—Statics	3
	18		19

C. E. 4S—Summer Surveying (five weeks) 5

THIRD YEAR

Econ. 103—Prin. of Economics	3	Econ. 110—Money, Cr. and Bk.	2
Bact. 141—Bacteriology	3	M. 104—Kinetics	3
M. 102—Mech. of Materials	4	M. E. 122—Mechanical Lab.	2
M. 103—Materials Test. Lab.	1	C. E. 101—Roads and Pave.	3
E. E. 101—Applied Electricity	4	C. E. 115—Hydraulics	3
M. E. 221—Thermodynamics	3	C. E. 121—Roofs and Bridges	4
G. 101—Eng'g. Society	½	G. 102—Eng'g. Society	½
	18½		17½

FOURTH YEAR

C. E. 102—Railway Eng'g.	3	Eng. 186—English	1
C. E. 103—Highway Design	3	G. 110—Business Law	3
C. E. 116—Water Sup. Eng'g.	4	C. E. 118—Sanitary Eng'g.	3
C. E. 120—Materials of Const.	2	C. E. 204—Adv. Structures	3
C. E. 123—Bridge Design	3	C. E. 206—Concrete Const.	3
C. E. 207—Foundations	3	G. 104—Eng'g. Society	½
G. 103—Eng'g. Society	½	Inspection Trip.	
		Electives (by groups)	4
	18½		17½

Electives

C. E. 200—Water Pow. Eng'g.	2	C. E. 209—Highway Lab.	2
Ch. E. 202—Water Ex.	2	C. E. 124—Thesis	2 or 4
C. E. 208—Trans. Econ.	2		

ELECTRICAL ENGINEERING

The course in electrical engineering is intended to give the student that theoretical and practical instruction which will enable him to obtain a basic knowledge of the application of electricity.

The work of the first two years is largely preparatory to the technical training of the last two years, and parallels closely that of the mechanical engineering course. This gives the requisite foundation in English, mathematics, physics, chemistry, drafting, and the elements of shop practice. Electrical construction is taken up at an early part of the course so that the student may profit by it when seeking summer employment. Some of the fundamental principles of electricity and magnetism are studied in the course in physics.

The purely electrical engineering courses begin with the third year. In the first semester of this year the elements of electrical engineering are taken up. The theory is studied in the classroom and then experimentally proved or verified in the laboratory. In the second semester this study is continued to include the design, construction, and operation of direct current machinery as well as the theory of alternating currents. In addition to the electrical studies the following supplementary subjects are covered during the year: hydraulics, thermodynamics, and heat engines; mechanics, mechanical laboratory practice; and economics.

The fourth year is devoted largely to a study of the commercial applications of electricity either directly or indirectly. The design, construction, and operation of alternating current apparatus are studied in the class and laboratory. The generation of electrical energy, its distribution and utilization, together with the economic factors to be considered, are covered by the course in electrical generation and distribution, which is continued into the second semester as a design course. An introductory course in illumination is intended to acquaint the student with the fundamentals of illuminating engineering. The course in advanced laboratory is included to give the student an opportunity for original work.

In his fourth year the student has a choice of 5 hours of elective courses, from which he may select those courses of particular value or interest to him. These electives are listed on the opposite page below the schedule of courses.

CURRICULUM IN ELECTRICAL ENGINEERING

Leading to the Degree of Bachelor of Science in Electrical Engineering.

FIRST YEAR: See curriculum on page 183.

SUMMER SESSION FOLLOWING FIRST YEAR

	Hrs.
M. E. 13S—Machine Work	3

SECOND YEAR

First Semester	Hrs.	*Second Semester*	Hrs.
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Chem. 10—Quan. Analysis	2	Mil. 4—Military Science	1
Mil. 3—Military Science	1	M. 101—Statics	3
M. E. 1—Pattern Making	1	M. E. 5—Foundry	2
M. E. 7—Weld. & Heat. Treat.	1	M. E. 29—Mechanism	4
M. E. 24—Empirical Design	2		
E. E. 1—Electrical Const.	2		19
	18		

G. 105S—Summer Practice—Out of Residence 2

THIRD YEAR

Econ. 103—Prin. of Economics	3	M. 104—Kinetics	3
M. 102—Mech. of Materials	4	C. E. 115—Hydraulics	3
M. 103—Materials Test. Lab.	1	M. E. 222—Heat Engines	3
M. E. 122—Mechanical Lab.	2	E. E. 200—D. C. Machinery	4
M. E. 221—Thermodynamics	3	E. E. 201—A. C. Theory and Meas.	4
E. E. 100—Elements of E. E.	4		
G. 101—Eng'g. Society	½	G. 102—Eng'g. Society	½
	17½		17½

FOURTH YEAR

G. 110—Business Law	3	Eng. 186—English	1
M. E. 223—Steam Pow. Plants	3	Econ. 110—Money, Cr. and Bk.	2
E. E. 202—A. C. Machinery	3	M. E. 228—Eng'g. Lab.	2
E. E. 204—E. Des. and Calc.	3	E. E. 104—Illumination	2
E. E. 205—Electrical Lab.	2	E. E. 203—A. C. Machinery	3
E. E. 207—E. Transmission	3	E. E. 206—Advanced E. Lab.	2
G. 103—Eng'g. Society	½	E. E. 208—E. Design	2
Electives—(see below)	2	G. 104—Eng'g. Society	½
		Inspection Trip	
	19½	Electives—(see below)	3
			17½

Electives

E. E. 105—Thesis	2 to 5	E. E. 217—Symmetrical Components	3
E. E. 209—Electric Traction	2	M. E. 111—Machine Design	2
E. E. 210—Rate Making	2 or 3	M. E. 112—Machine Drawing	2
E. E. 211—Electric Problems	2	Ch. E. 210—Electro Chemical Industries	2 or 3
E. E. 213—Elec. Power Trans. and Distribution	3	Math. 240—Differential Equations	3
E. E. 214—Ind. Appl. of Elec.	3		
E. E. 216—Telephone Eng'g.	3		

MECHANICAL ENGINEERING

The aim of the course in mechanical engineering is to give the student such mental equipment as will enable him to deal most effectively both technically and commercially with general engineering problems. All possible practice is given in the work that an engineer is ordinarily called on to do, but greater stress is laid on a thorough knowledge of those underlying principles and methods which are the foundation of all engineering professions. To this is added a study of those economic subjects which are essential to a thorough understanding of sound business methods. Options are provided in the fourth year which enable the student to specialize in accordance with his natural inclination. Students selecting the power option or the industrial option in the first semester are required to take at least 3 hours in the same group during the second semester.

The work in pure mathematics is terminated at the end of the second year, and applications follow in the recitation room courses in mechanism, statics, mechanics of materials, dynamics, and machine design. Power engineering begins with the course in thermodynamics in the third year and is continued by the courses in heat engines and power plant design with options in the design of steam turbines and gas engines. A sufficient amount of electrical engineering is given in the third and fourth years to enable the student to handle engineering operations involving the simpler electrical problems, and additional courses are available in the electrical option.

The shop work, commencing in the second year, is planned to acquaint students with the fundamental tools and mechanical operations, to enable them to acquire a reasonable amount of manual dexterity, and to furnish them continuously with practical examples of the principles studied in the class rooms. With those selecting the industrial option a study is made of the methods used in manufacturing plants and engineering establishments, and of the principles of industrial management.

Drafting room work is given throughout the four years, starting with elementary mechanical drawing and descriptive geometry in the first year. The courses in mechanism, machine design, and power-plant design are accompanied by drawing room work, giving practical applications of the principles studied in the class room and constant practice in the execution of drawings.

The engineering laboratories provide the student with practice in testing, handling, and caring for a large variety of machinery, including steam, air, gas, hydraulic, material-testing, and power-transmission machinery. One half-day a week is devoted to this work during the last two years.

CURRICULUM IN MECHANICAL ENGINEERING

Leading to the Degree of Bachelor of Science in Mechanical Engineering

FIRST YEAR: See curriculum on page 183.

SUMMER SESSION FOLLOWING FIRST YEAR

	Hrs.
M. E. 13S—Machine Work	3

SECOND YEAR

First Semester	Hrs.	*Second Semester*	Hrs.
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Chem. 10—Quant. Analysis	2	Mil. 4—Military Science	1
Mil. 3—Military Science	1	M. 101—Statics	3
M. E. 1—Pattern Making	1	M. E. 4—Pattern Making	2
M. E. 5—Foundry	2	M. E. 29—Mechanism	4
M. E. 7—Welding and Heat Treatment	1		19
M. E. 24—Empirical Design	2		
	18		

G. 105s—Summer Practice—Out of Residence 2

THIRD YEAR

Econ. 103—Prin. of Economics	3	Econ. 110—Money, Cr. and Bk.	2
M. 102—Mech. of Materials	4	M. 104—Kinetics	3
M. 103—Materials Test. Lab.	1	E. E. 103—Elements of E. E.	4
E. E. 102—Elements of E. E.	4	M. E. 111—Machine Design	2
M. E. 122—Mechanical Lab.	2	M. E. 112—Machine Drawing	2
M. E. 221—Thermodynamics	3	M. E. 105—Machine Const.	2
G. 101—Eng'g. Society	½	M. E. 222—Heat Engines	3
	17½	G. 102—Eng'g. Society	½
			18½

FOURTH YEAR

C. E. 115—Hydraulics	3	Eng. 186—English	1
C. E. 122—Structural Eng'g. or		G. 110—Business Law	3
Ch. E. 220—Metallurgy	2	E. E. 214—Ind. App. of Elec.	3
Ch. E. 221—Metallurgy Lab.	1	M. E. 227—Pr. Plant Design	2
M. E. 123—Eng'g. Lab.	2	M. E. 228—Eng'g. Lab.	2
M. E. 201—Machine Design	2	G. 104—Eng'g. Society	½
M. E. 202—Machine Drawing	2	Inspection Trip	
M. E. 223—Steam Pow. Plants	3	Electives—(see below)	6
G. 103—Eng'g. Society	½		17½
Electives—(see below)	3		
	18½		

Electives

M. E. 106—Shop Methods	2 or 3	M. E. 224—Steam Turbines	3
M. E. 124—Thesis	2 to 4	M. E. 225—Gas Eng'g.	3
M. E. 205—Industrial Eng'g.	3	M. E. 226—Heat and Vent.	2 or 3
M. E. 206—Industrial Eng'g.	3	E. E. 204—E. Desn. and Calc.	3
M. E. 207—Industrial Eng'g.	3	E. E. 210—Rate Making	2 or 3

FIVE-YEAR CURRICULA

For a description of curricula leading to the degree of Bachelor of Science and degrees in engineering, see page 183.

SCHOOL OF MINES CURRICULA[1]

1. A four-year curriculum leading to the degrees of Bachelor of Science in Engineering of Mines, with options in coal mining and oil and gas engineering.

2. Combined science and engineering curricula extending over five or more years leading to the degrees of Bachelor of Science and Bachelor of Science in Mining Engineering in the School of Mines.

MINING ENGINEERING

Mining engineering deals with the processes and appliances used in the extraction of minerals from within the earth. Not only must the mining engineer be thoroughly trained in mining and geology, but also in the application of the fundamental principles of civil, electrical, and mechanical engineering to mining conditions.

The first two years of the course in mining engineering are devoted to a thorough training in the underlying principles of mathematics, physics, and chemistry. Supplementing these are courses in surveying, including mine surveying, English, and drawing. For the last two years of the course two options are provided, one in coal mining and one in geological, oil, and gas engineering. The student is permitted to state his choice of option at the beginning of the second year.

COAL MINING

In the Coal Mining Option the study of coal mining is taken up in the third year. This study includes the geology and classification of coals; explosives and blasting; prospecting; shaft sinking and tunneling; methods of working; haulage, hoisting and pumping; and the preparation of coal for the market. A course in the projection of mine workings and the design of mining plants is offered throughout the fourth year. A thorough course in mine gases and the ventilation of mines is given in the first half of the fourth year, supplemented by work in the mining laboratory. The course in fuels is designed to give the student a knowledge of the various fuels that are utilized in engineering practice, while the courses in metallurgy acquaint him with the minerals and processes used in manufacture of iron and steel. The course in mine management presents the economic, social, and financial considerations to be met in the successful management of a mining enterprise.

The study of steam engineering begins with the course in thermodynamics. Practice in the handling and care of instruments and machinery and in the solution of practical engineering problems is offered in the mechanical laboratory. These courses are followed by courses in electrical engineering and structural engineering.

[1]The freshman year of these curricula is common with the freshman year in the College of Engineering. This provision permits a student to postpone a choice of his course of study in any branch of engineering until after a year of college work.

A training in the science of geology is offered by the course in mineralogy and general geology. These courses may be supplemented by the study of the economic geology of the non-metallic minerals in the fourth year, special attention being paid to the geology of coal, oil and gas. Should the student desire further work in geology a course in field geology is offered as an elective subject.

The courses in economics, business law, and industrial engineering furnish the fundamental business training so essential for the engineer.

CURRICULUM IN MINING ENGINEERING

(COAL MINING OPTION)

Leading to the Degree of Bachelor of Science in Engineering of Mines

FIRST YEAR: See curriculum on page 183.

SECOND YEAR

First Semester	*Hrs.*	*Second Semester*	*Hrs.*
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Mil. 3—Military Science	1	Chem. 6—Quant. Analysis	4
C. E. 2—Surveying	4	Mil. 4—Military Science	1
M. E. 23—Drawing	2	M. 101—Statics	3
E. M. 106—Mineralogy	2	E. M. 101—Mine Surveying	2
	18		19

E. M. 102s—Summer Mine Surveying (five weeks) 5

THIRD YEAR

Econ. 103—Prin. of Economics	3	Econ. 110—Money, Cr. and Bk.	2
Geol. 1—General Geology	4	M. 104—Kinetics	3
M. 102—Mech. of Materials	4	M. E. 122—Mechanical Lab.	2
M. 103—Materials Test. Lab.	1	C. E. 115—Hydraulics	3
M. E. 221—Thermodynamics	3	E. M. 107—Mining Methods	4
E. M. 111—Mining	2	E. M. 112—Coal Mining	4
G. 101—Eng'g. Society	½	G. 102—Eng'g. Society	½
	17½		18½

FOURTH YEAR

G. 110—Business Law	3	Eng. 186—English	1
Ch. E. 220—Metallurgy	2	E. E. 103—Elements of E. E.	4
E. E. 102—Elements of E. E.	4	E. M. 114—Mine Management	1
C. E. 122—Structural Eng'g.	3	E. M. 116—Mine Design	3
E. M. 113—Mine Ventilation	3	E. M. 118—Mining Lab.	3
E. M. 115—Mine Design	2	G. 104—Eng'g. Society	½
E. M. 202—Coal Lab.	1	Inspection Trip	
G. 103—Eng'g. Society	½	Electives—(see below)	5
	18½		17½

Electives

E. M. 120—Thesis	2 to 4	Ch. E. 232—Refractories	2
E. M. 203—Geol. Survey	2	C. E. 206—Concrete Const.	3
Ch. E. 102—Blow Pipe & Assay.	2	M. E. 207—Industrial Eng'g.	3
Ch. E. 211—Fuels	3	Geol. 111—Economic Geol.	4
Ch. E. 221—Met. Lab.	1	Geol. 161—Field Geol.	3
Ch. E. 222—Non. Fer. Met.	2	Geol. 211—Econ. Geol.	3 or 4

GEOLOGICAL AND OIL AND GAS ENGINEERING

This option is planned to meet the needs of the engineer who is more interested in the geological aspect of mining than in the actual operation of a mining property. There is a growing demand for the so-called mining geologist who, while he has had a thorough training in the fundamentals of engineering in general and of mining engineering in particular, yet is specially qualified to work out the detailed geological features of mining properties and to make reports on them. This is particularly true in the case of oil and gas companies, where accurate geological knowledge in advance of actual drilling operations is of the greatest importance in the economical development of the field. Besides the opportunities offered by mining companies, many of our railroads maintain a corps of geologists while the several states and the Federal Government are continually carrying on geological investigations. This course also offers an excellent preparation for those who purpose to do graduate work.

In the third year the course differs from the coal mining option in that organic chemistry and geological courses are substituted for the courses in coal mining. A course in field geology in which the student prepares a geological map and a complete report on an assigned area enables him to apply the geological knowledge received in various courses. The fundamentals of mining and metallurgy are studied in the third year as well. The study of oil and gas geology treats of the origin, properties, distribution, and mode of accumulation of oil and gas, and familiarizes the student with all the available sources of information on this subject. The courses in oil and gas production and oil refining deal with the subjects of the chemical and physical properties of petroleum and natural gas, their extraction and subsequent treatment, the valuation of oil and gas properties, reports on them, and the actual testing in the laboratory of various oils, oil shales, and natural gas.

A thorough grounding in the fundamentals of business is afforded by the courses in economics, money, credit, and banking, business law, and industrial engineering.

CURRICULUM IN MINING ENGINEERING

(OIL AND GAS OPTION)

Leading to the Degree of Bachelor of Science in Engineering of Mines

FIRST YEAR: See curriculum on page 183.

SECOND YEAR

First Semester	*Hrs.*	*Second Semester*	*Hrs.*
Physics 105—G. Physics	4	Physics 106—G. Physics	4
Physics 107—G. Physics Lab.	1	Physics 108—G. Physics Lab.	1
Math. 107—Calculus	4	Math. 108—Calculus	4
Mil. 3—Military Science	1	Chem. 6—Quant. Analysis	4
C. E. 2—Surveying	4	Mil. 4—Military Science	1
M. E. 23—Drawing	2	M. 101—Statics	3
E. M. 106—Mineralogy	2	E. M. 101—Mine Surveying	2
	18		19

E. M. 102s—Summer Mine Surveying (five weeks) 5

THIRD YEAR

Chem. 233—Organic Chem.	5	Geol. 3—Historical Geol.	4
Geol. 1—General Geol.	4	Geol. 161—Field Geol.	3
Ch. E. 101—Oil Lab.	1	M. 104—Kinetics	3
E. M. 201—Oil & Gas Prod.	2	C. E. 115—Hydraulics	3
M. 102—Mech. of Materials	4	M. E. 221—Thermodynamics	3
M. 103—Materials Test. Lab.	1	E. M. 203—Geol. Surveying	2
G. 101—Eng'g. Society	½	G. 102—Eng'g. Society	½
	17½		18½

FOURTH YEAR

E. E. 101—Applied Elect.	4	Eng. 186—English	1
Ch. E. 220—Metallurgy	2	G. 110—Business Law	3
E. M. 204—Oil & Gas Prod.	2	Geol. 205—Structural Geol.	3
Ch. E. 211—Fuels	3	Geol. 211—Economic Geology	3
Ch. E. 212—Oil Refining	2	Econ. 110—Money, Cr. and Bk.	2
M. E. 122—Mechanical Lab.	2	G. 104—Eng'g. Society	½
Econ. 103—Prin. of Econ.	3	Inspection Trip	
G. 103—Eng'g. Society	½	Electives—(see below)	5
	18½		17½

Electives

E. M. 112—Coal Mining	4	C. E. 206—Concrete Const.	3
E. M. 120—Thesis	2-4	M. E. 207—Industrial Eng'g.	3
Ch. E. 102—Blow Pipe & Assay.	2	Geol. 111-204	4
Ch. E. 201—Benzene Deriv.	3	Chem. 238, 260	3-5
Ch. E. 222—Non-Fer. Met.	2		

FIVE-YEAR CURRICULA

Leading to the Degree of Bachelor of Science and Degrees in Engineering and in Mining Engineering

These curricula are designed to meet the needs of students who wish a broader training in liberal arts subjects than is provided in a four-year curriculum. The work outlined for the first four years may also be taken by students who desire a general scientific course with engineering as a major as a preparation for the study of law, business, business administration, or some branch of science or for teaching mathematics and science.

(A) Requirements for the degree of Bachelor of Science, to be conferred at the end of the fourth year.

Subject	*Hours*
The requirements in the first three years of any four-year engineering curriculum, except summer practice[1]	112[2]
Additional economics (group requirements of 6 hours)	1
One foreign language	12
Elective from one of the following groups: (1) English, journalism, public speaking; (2) foreign language; (3) history; (4) political science; (5) philosophy and sociology; (6) business administration.	6
Total	131[3]

(B) Requirements for the Bachelor of Science degree in Engineering or Engineering of Mines to be conferred upon completion of the fifth year.

Summer Practice 105S	2[4]
The work outlined for the fourth year in the department in which the first degree was taken	36[5]
Total for five years	169

SPECIAL ENGINEERING CURRICULA

1. ELECTIVE GROUPS FOR STUDENTS IN OTHER COLLEGES. Candidates for degrees other than engineering degrees and special students in any department of the University are permitted to elect subjects in the College of Engineering and School of Mines, provided, in each case, they have had the subjects specified as prerequisites. Students who wish to take a general classical or scientific course of study before taking the engineering curriculum are ad-

[1]Candidates for the degree of Bachelor of Science in Chemical Engineering may postpone 3 hours of third year work until the fifth year to make room for the economics required for the degree of Bachelor of Science.

[2]For civil and mining engineering students—114 hours; for electrical engineering students—111 hours.

[3]For civil and mining engineering students—133 hours; for electrical engineering students—130 hours.

[4]For all curricula except civil and mining engineering.

[5]For electrical engineering students—37 hours.

In special cases students may, with the approval of the adviser and Committee on Scholarship, be permitted to substitute a limited amount of fourth-year work in the same curriculum for third-year subjects.

vised to carry their mathematics as far as called for by the engineering curriculum, and to take some of their elective work in the College of Engineering. The engineering instructors will advise them what is the best to elect.

For a list of engineering and mining courses accredited in the College of Arts and Sciences see footnote on page 110.

2. PARTIAL CURRICULUM. Students who have not the time or are otherwise unable to take full curriculum will be allowed to take a special or partial curriculum, consisting of such studies as they are prepared to take, provided such curriculum shall have been approved by the adviser. For further information see statement of requirements for admission as special students.

PROFESSIONAL DEGREES

The University confers the following professional degrees: Chemical Engineer (Ch. E.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Engineer of Mines (E. M.), upon graduates of the College of Engineering and the School of Mines of West Virginia University on the basis of practical experience and study in absentia, the presentation of a thesis and oral final examination.

To be eligible a candidate for a professional degree must have been in active practice of his profession for at least five years since receiving his first degree, and must have been in responsible charge of important work for at least two years.

Application for registration as a candidate for a degree should be made not later than October 1 in the year in which the degree is expected. Detailed regulations and registration blanks may be obtained from the Dean of the College of Engineering or the Director of the School of Mines.

COURSES OF INSTRUCTION

(For explanation of abbreviations see page 87)

NOTE—Courses marked by an asterisk (*) may be taken as undergraduate work by students in colleges other than the College of Engineering.

CHEMICAL, METALLURGICAL, AND CERAMIC ENGINEERING

Professors HODGE and KOEHLER; Assistant Professors JENNI and H. M. CATHER

Undergraduate Division

101.* **Oil Laboratory.** I. 1 Hr. Primarily for students taking the Oil and Gas Option. Prereq.: Chemistry 6 or 10. Mr. Koehler

102. **Blow-Pipe Analysis and Assaying.** II. 2 Hrs. Laboratory and recitations. Prereq.: Chemistry 6 or 10. Mr. Jenni

112s. **Practical Pottery.** S1. 2 or 4 hrs. Fundamentals of clay working. Mr. Koehler and Assistant

124. **Thesis.** I, II. 2 to 5 Hrs. Some problem in chemical engineering or industrial chemistry is selected for investigation. A carefully prepared report is required. Credit is given in proportion to time put in and results obtained. Staff

201. **Benzene Derivatives.** II. 3 Hrs. Manufacture of commercial products from coal tar; benzene and related compounds; intermediates, dyes, drugs, and explosives. Prereq.: Chemistry 233. Mr. Hodge and Mr. Jenni

202.* **Water Examination and Purification.** II. 2 Hrs. Prereq.: Chemistry 6 or 10. Mr. Hodge

205.* **Chemical Engineering and Manufactures.** I. 3 Hrs. Prereq.: Chemistry 260 and M. 103. Mr. Hodge and Mr. Cather

206.* **Industrial Chemistry Laboratory.** I. 2 Hrs. To accompany Ch. E. 205. Mr. Jenni

207. **Chemical Engineering and Manufactures.** II. 3 Hrs. Continuation of Ch. E. 205. Mr. Hodge

208. **Chemical Engineering Laboratory.** II. 2 Hrs. Continuation of Ch. E. 206. To accompany Ch. E. 207. Mr. Hodge and Mr. Koehler

209. **Chemical Plants.** II. 2 Hrs. The principles applied in the layout, design, and operation of plants devoted to the production of industrial chemicals. Prereq.: M. E. 29 and Ch. E. 205. Mr. Koehler and Mr. Cather

210.* **Electrochemical Industries.** I, II. 2 or 3 Hrs. Prereq.: E. E. 110 or its equivalent, and Chemistry 6 or 10. Mr. Koehler

211. **Fuels.** I, II. 2 or 3 Hrs. Prereq: Chemistry 6 or 10, and M. E. 122. Mr. Hodge

212. **Oil Refining Laboratory.** I. 2 Hrs. Prereq.: Chemistry 233 and M. 103. Mr. Koehler

213. **Principles of Gas and Fuel Engineering.** I, II. 3 Hrs. Prereq.: Ch. E. 211. Mr. Hodge

220.* **Metallurgy of Iron and Steel.** I. 2 Hrs. Prereq.: Chemistry 6 or 10. Mr. Hodge and Mr. Jenni

221.* **Metallurgy Laboratory.** I. 1 Hr. Preparation and microscopical examination of 25 specimens of iron and steel; analytical determinations; photomicrographs; to accompany Ch. E. 220. Mr. Hodge and Mr. Jenni

222. **Metallurgy Non-Ferrous.** II. 2 Hrs. Prereq.: Chemistry 6 and M. 103. Mr. Jenni

223. **Metallography.** II. 2 Hrs. Phase-rule diagrams of alloy systems. Photomicrographs of metals and alloys. Prereq.: Ch. E. 220, 221, and 222, and Chemistry 260. Mr. Hodge and Mr. Jenni

230. **Ceramics.** II. 3 Hrs. A review of the ceramic industries. Chemical and engineering principles applied in the manufacture of ceramic materials. Prereq.: Chemistry 6 or 10. Mr. Koehler

231. **Advanced Ceramics Laboratory.** I. 2 Hrs. Preparation of bodies, glazes, enamels, and glass. Biscuit and glost firing. Coloring agents. Factory control tests. Prereq.: Ch. E. 230. Mr. Koehler

232. **Refractories.** I, II. 2 Hrs. Manufacture, properties, and use of refractory materials. Standard tests. Study of phase diagram of refractory materials. Prereq.: Chemistry 6 or 10. Mr. Koehler

233. **Glass.** I, II. 2 Hrs. Physical and chemical properties of glass. Methods of analysis of glass and of raw materials. Theory and practice of manufacture. Prereq.: Ch. E. 230. Mr. Koehler

Graduate Division

351. **Coal Tar and By-Products.** II. 2 Hrs. Prereq.: Ch. E. 201, 206, and 211. Mr. Hodge

352. **Biochemical Industries.** I. 3 Hrs. Prereq.: Ch. E. 201 and 207. Mr.Hodge

353. **Transformations in Silicates.** I, II. 2 Hrs. Prereq.: Ch. E. 230. Mr. Koehler

354. **Advanced Fuel Engineering.** I. 3 Hrs. Prereq.: Ch. E. 213. Mr. Hodge

397, 398. **Research.** I, II. Credit to be arranged. A suitable problem in chemical engineering, metallurgy, or ceramics is selected for investigation. Prereq.: Ch. E. 207. Mr. Hodge and Staff

CIVIL ENGINEERING

Professors DAVIS and DOWNS; Assistant Professor NELSON; and Instructor SPEIDEN

Undergraduate Division

1.* **Surveying.** I, II. 2 Hrs. Primarily for freshmen. Prereq.: Math. 4. Mr. Nelson

2.* **Surveying.** I. 4 Hrs. Prereq.: Math. 4. Mr. Nelson

3.* **Railroad Curves.** II. 2 Hrs. Continuation of C. E. 2. Mr. Nelson

4S. **Summer Surveying.** S1. (5 Weeks). 5 Hrs. Prereq.: C. E. 3. Mr. Nelson

10.* **Structural Drafting.** I. 2 Hrs. Prereq.: M. E. 20. Mr. Speiden

101. **Roads and Pavements.** II. 3 Hrs. Prereq.: C. E. 4S. Mr. Downs

102. **Railway Engineering.** I. 3 Hrs. Prereq.: C. E. 4S. Mr. Downs

103. **Highway Design.** I. 3 Hrs. Prereq.: C. E. 102. Mr. Downs

115.* **Hydraulics.** I, II. 3 Hrs. Prereq.: M. 102 or 104 (or registration in M. 102 or 104). Mr. Speiden

116. **Water Supply Engineering.** I. 4 Hrs. Prereq.: C. E. 115. Mr. Speiden

117. **Municipal Engineering.** II. 2 Hrs. Prereq.: C. E. 115. Mr. Speiden

118. **Sanitary Engineering.** II. 3 Hrs. Prereq.: C. E. 115. Mr. Speiden

120. **Materials of Construction.** I. 2 Hrs. Prereq.: M. 102. Mr. Downs

121. **Roofs and Bridges.** II. 4 Hrs. Prereq.: M 102. Mr. Davis

122. **Structural Engineering.** I. 2 or 3 Hrs. Prereq.: M. 102. Mr. Davis

123. **Bridge Design.** I. 3 Hrs. Prereq.: C. E. 121. Mr. Davis

124. **Thesis.** I, II. 2 or 4 Hrs. Special design, investigation, or original research of some assigned topic relating to civil engineering. Staff

200. **Water-Power Engineering.** II. 2 Hrs. Prereq.: C. E. 115. Mr. Davis

201. **Hydraulic Measurements.** I, II. 1 Hr. Prereq.: C E. 115. Mr. Speiden

202. **Water Purification and Design.** I. 3 or 4 Hrs. Prereq.: registration in C. E. 116. Mr. Speiden

203. **Sewage Disposal.** II. 3 Hrs. Prereq.: C. E. 115. Mr. Speiden

204. **Advanced Structures.** II. 3 Hrs. Prereq.: C. E. 121. Mr. Davis

206. **Concrete Construction.** II. 3 Hrs. Prereq.: C. E. 121. Mr. Davis

207. **Foundations.** I. 3 Hrs. Prereq.: C. E. 121. Mr. Davis

208. **Transportation Economics.** II. 2 Hrs. Prereq.: C. E. 102. Mr. Downs

209. **Highway Laboratory.** II. 2 Hrs. Prereq.: M. 103. Mr. Nelson

Graduate Division

351. **Advanced Water-Supply Engineering.** I, II. Credit to be arranged. Prereq.: C. E. 116. Mr. Speiden

352. **Sewerage and Sewage Disposal.** I, II. Credit to be arranged. Prereq.: C. E. 118. Mr. Speiden

353. **Advanced Design Problems.** I, II. Credit to be arranged. Mr. Davis and Mr. Speiden

354. **Statically Indeterminate Structures.** I, II. Credit to be arranged. Prereq.: C. E. 204. Mr. Davis

397, 398. **Research.** I, II. Credit to be arranged. Mr. Davis and Mr. Speiden

ELECTRICAL ENGINEERING

Professors FORMAN and HALL; Assistant Professor JONES; Instructor SEIBERT

Undergraduate Division

1. **Electrical Construction.** I, II. 2 Hrs. Special construction work and assignment to engineering literature. Mr. Hall and Staff

100.* **Elements of Electrical Engineering.** I. 4 Hrs. Primarily for juniors in electrical engineering. Prereq.: Physics 106. Mr. Forman and Mr. Jones

101.* **Applied Electricity.** I, II. 4 Hrs. Primarily for juniors in civil engineering. Prereq.: Physics 106. Mr. Jones

102.* **103.* Elements of Electrical Engineering.** I and II. 4 Hrs. each semester. For students in mechanical and mining engineering. Staff

104. **Illumination.** II. 2 Hrs. Prereq.: Physics 106. Mr. Forman

105. **Thesis.** I, II. 2 to 5 Hrs. Special investigation or original research on some topic relating to electrical engineering. Mr. Forman and Mr. Hall

110. **Elements of Electrical Engineering.** I. 5 Hrs. Prereq.: Physics 106. For students in chemical engineering. Mr. Hall and Mr. Seibert

200.* **Direct-Current Machinery.** II. 4 Hrs. To follow E. E. 100. Mr. Hall and Mr. Seibert

201.* **Alternating-Current Theory and Measurement.** II. 4 Hrs. Prereq.: E. E. 100. Mr. Forman and Mr. Jones

202.* **203.* Alternating-Current Machinery.** I and II. 3 Hrs. each semester. To follow E. E. 201. Accompanied by E. E. 205. Mr. Forman

204. **Electrical Design and Calculations.** I. 3 Hrs. Prereq.: E. E. 102 or 200 and 201. Mr. Hall and Mr. Jones

205.* **Electrical Engineering Laboratory.** I. 2 Hrs. To accompany E. E. 202. Mr. Forman and Mr. Jones

206.* **Advanced Electrical Laboratory.** II. 2 Hrs. Prereq.: E. E. 202 and 205. Mr. Forman and Mr. Jones

207. **Electrical Transmission.** I. 3 Hrs. Prereq.: E. E. 201. Mr. Hall

208. **Electric Design.** II. 2 Hrs. Prereq: E E 207 Mr. Jones and Mr. Seibert

209. **Electric Traction.** I. 2 Hrs. Prereq.: E. E. 202. Mr. Hall

210. **Rate-Making Contracts and Metering.** II. 2 or 3 Hrs. A study of factors involved in the metering, buying, and selling of electrical energy. Mr. Hall

211. **Electrical Problems.** I, II. Credit to be arranged. Mr. Forman

212. **Transients, Surges, and Electric Waves.** II. 3 Hrs. Prereq.: E. E. 201. Mr. Forman

213. **Electric Power Transmission and Distribution.** II. 3 Hrs. Advanced theory and calculations of transmission lines and networks. Prereq.: E. E. 207. Mr. Hall

214. **Industrial Applications of Electricity.** II. 3 Hrs. Prereq.: E. E. 103 or 202. Mr. Hall

216. **Telephone Engineering.** I, II. 3 Hrs. Prereq.: E. E. 201. Mr. Forman

217. **Symmetrical Components.** II. 3 Hrs. Prereq.: E. E. 202. Mr. Forman

218. **Electron Tubes in Industry.** II. 3 Hrs. Prereq.: E. E. 200 and 201. Mr. Seibert

Graduate Division

397, 398. **Research.** I, II. Credit to be arranged. Advanced research or special investigations on some topic related to electrical engineering. Mr. Forman or Mr. Hall

GENERAL

Professors JONES and BOOMSLITER

Undergraduate Division

1. **Engineering Lectures.** I. (No credit). Required of all freshmen in engineering. A series of lectures designed to acquaint the engineering student at the beginning of his course with the profession he has chosen. Mr. Boomsliter

101. **Engineering Society.** I, II. ½ Hr. Primarily for juniors. Required of all candidates for degrees in engineering. Membership, attendance, and active participation in Engineering Society. Mr. C. R. Jones and Committee

102. **Engineering Society.** I, II. ½ Hr. Continuation of G. 101. For juniors. Mr. C. R. Jones and Committee

103. **Engineering Society.** I, II. ½ Hr. For seniors. Required of all candidates for degrees in engineering. Continuation of G. 101 and 102. Mr. C. R. Jones and Committee

104. **Engineering Society.** I, II. ½ Hr. Continuation of G. 103. For seniors. Mr. C. R. Jones and Committee

105S. **Summer Practice.** S. 2 Hrs. Required of all candidates for degrees in chemical, electrical and mechanical engineering. At least six weeks of practical experience in some branch of engineering activity, preferably of a character that will articulate with the student's major subject.

106S. **Shopwork.** S. 3 Hrs. Summer shop practice out of residence required for the degree of B. S. in Industrial Education. This work is to be along the line of the major or minor group.

107S. **Shopwork.** S. 2 Hrs. Continuation of G. 106S. For students in industrial education.

110. **Business Law.** I, II. 3 Hrs. General principles of business law. The law of contracts. Standard contract forms. Prereq.: Economics 103, or 1 and 2, and M. 102. Mr. C. R. Jones

MECHANICAL ENGINEERING

DRAWING, MACHINE DESIGN, MACHINE CONSTRUCTION, AND INDUSTRIAL ENGINEERING

Professors HAYES and GILL; Assistant Professors GROW, WHITE, and H. M. CATHER; Instructors SEAMAN, CARL, and GNAGEY

POWER ENGINEERING

Professor GRUMBEIN and Assistant Professors AMIDON and H. M. CATHER

Undergraduate Division

1.* **Pattern Making.** I, II. 1 Hr. Two three-hour periods or three two-hour periods, one-half semester only. Mr. Seaman

2.* **Woodworking.** I. 2 Hrs. Mr. Seaman

3.* **Woodworking.** I, II. 2 Hrs. Prereq.: M. E. 2. Mr. Seaman

4.* **Pattern Making.** I, II. 2 Hrs. Prereq.: M. E. 1 and 5. Mr. Seaman

5.* **Foundry.** I, II 2 Hrs. Mr. Seaman and Mr. Carl

7.* **Welding and Heat Treatment.** I, II. 1 Hr. Two three-hour periods or three two-hour periods, one-half semester only. Mr. Gill and Mr. Gnagey

8S. **Woodfinishing.** S1. 2 Hrs. The proper selection of colors for different kinds of wood, the mixing of fillers, stains, and paints, the application of varnish, shellac, and oil finishes. Mr. Seaman

9. **Automobile Maintenance.** II. 2 Hrs. One lecture and one three-hour laboratory. Problems in the operation, adjustment, and repair of automobiles. Primarily for teachers of industrial arts. Mr. Gnagey and Assistant

10.* **Pipefitting.** I, II. 1 Hr. Mr. Carl

11.* **Machine Work.** I, II. 2 Hrs. Mr. Gill and Mr. Gnagey

12.* **Machine Work.** I, II. 1 Hr. Continuation of M. E. 11, which is a prerequisite. Mr. Gill and Mr. Gnagey

13S.* **Machine Work.** S1. 3 Hrs. Equivalent to M. E. 11 and 12. Four hours per day for six weeks. Mr. Gill and Mr. Gnagey

20.* **Mechanical Drawing.** I, II. 3 Hrs. Staff

21S. **Mechanical Drawing.** S1. 2 Hrs. The use and care of drawing instruments, freehand sketching, and lettering. This course is intended for those who are teaching manual training in public schools. Mr. Hayes

23. **Mechanical Drawing.** I. 2 Hrs. Continuation of M. E. 20. For mining engineering students only. Mr. Cather

24.* **Empirical Design.** I, II. 2 Hrs. Prereq.: M. E. 11 or 13S, and M. E. 20. Mr. Grow and Staff

26.* **Descriptive Geometry.** I, II. 3 Hrs. Prereq.: M. E. 20 and solid geometry. Staff.

29.* **Mechanism.** I, II. 4 Hrs. Lectures, recitations, and drawing problems. Prereq.: M. E. 20 and 26. Staff

101.* **Woodworking.** I, II. 2 Hrs. Continuation of M. E. 3. Mr. Seaman

103.* **Foundry Work.** Semester and credit to be arranged. Advanced work for special students. Continuation of M. E. 5. Mr. Seaman and Mr. Carl

105.* **Machine Construction.** I, II. 2 Hrs. Continuation of M. E. 13S. Two three-hour periods. Mr. Gill and Mr. Gnagey

106.* **Shop Methods.** II. 2 or 3 Hrs. Continuation of M. E. 105. Two three-hour periods. Mr. Gill

107.* **Machine Construction.** Semester and credit to be arranged. Advanced work for special students. Continuation of M. E. 105 nad 106.
Mr. Gill

111. **Machine Design.** I, II. 2 Hrs. To accompany M. E. 112. Prereq.: M. 102 and M. E. 29. Mr. Hayes

112. **Machine Drawing.** I, II. 2 Hrs. To accompany M. E. 111. Staff

122. **Mechanical Laboratory.** I, II. 2 Hrs. Prereq.: Physics 106 and M. 101, and accompanying M. E. 221.
Mr. Grumbein, Mr. Amidon, and Mr. Cather

123. **Engineering Laboratory.** I. 2 Hrs. Prereq.: M. E. 122.
Mr. Grumbein and Mr. Amidon

124. **Thesis.** I, II. 2 to 4 Hrs. Investigation or original research on some special topic relating to Mechanical Engineering.
Mr. Grumbein and Mr. Hayes

201. **Advanced Machine Design.** I. 2 Hrs. Continuation of M. E. 111. To accompany M. E. 202. Lectures and recitations. Two periods.
Mr. Hayes

202. **Designing and Drawing.** I. 2 Hrs. To accompany M. E. 201. Staff

205. **Industrial Engineering.** I. 3 Hrs. Mr. Hayes

206. **Industrial Engineering.** II. 3 Hrs. Prereq.: M. E. 205. Mr. Hayes

207.* **Industrial Engineering.** II. 3 Hrs. Mr. Hayes

221.* **Thermodynamics of Engineering.** I, II. 3 Hrs. Prereq.: Physics 105 and 107, and Math. 108. Mr. Grumbein and Mr. Amidon

222.* **Heat Engines.** II. 3 Hrs. Continuation of M. E. 221. Mr. Grumbein

223.* **Steam Power Plants.** I. 3 Hrs. Prereq.: M. E. 221.
Mr. Grumbein and Mr. Cather

224. **Steam Turbines.** I. 3 Hrs. Prereq.: M. E. 222.
Mr. Grumbein and Mr. Amidon

225. **Gas Engines and Gas Engineering.** II. 3 Hrs. Fuel gases, gas production and transmission, gas engines, etc. Prereq.: M. E. 222.
Mr. Grumbein and Mr. Amidon

226.* **Heating and Ventilating.** II. 2 or 3 Hrs. Prereq.: M. E. 221.
Mr. Grumbein

227. **Steam Power Plant Design.** II. 2 Hrs. Continuation of M. E. 223.
Mr. Grumbein and Mr. Cather

228. **Engineering Laboratory.** II. 2 Hrs. Prereq.: M. E. 123.
Mr. Grumbein and Mr. Amidon

Graduate Division

397, 398. **Research.** I, II. Credit to be arranged. Investigation or original research on some special topic relating to mechanical engineering.
Mr. Grumbein or Mr. Hayes

MECHANICS

Professor BOOMSLITER and Assistant Professor CATHER

Undergraduate Division

101.* **Statics.** I, II. 3 Hrs. Prereq.: Math. 108 (or registration in Math. 108), and Physics 105 and 107. Mr. Boomsliter and Mr. Cather

102.* **Mechanics of Materials.** I, II. 4 Hrs. Prereq.: M. 101. Mr. Boomsliter and Mr. Cather

103.* **Materials Testing Laboratory.** I, II. 1 Hr. Prereq.: Registration in M. 102. Mr. Boomsliter and Mr. Cather

104.* **Kinetics.** I, II. 3 Hrs. Continuation of M. 101. Prereq.: M. 101. Mr. Boomsliter and Mr. Cather

200. **Advanced Mechanics of Materials.** I or II. 2 to 4 Hrs. Prereq.: M. 102. Mr. Boomsliter

201. **Advanced Kinetics.** II. 3 Hrs. Prereq.: M. 101 and 104. Mr. Boomsliter

202. **Advanced Materials Laboratory.** I or II. 2 to 4 Hrs. Prereq.: M. 102. Mr. Boomsliter

COURSES IN THE SCHOOL OF MINES

Professor LAWALL and Assistant Professor STAAB

Undergraduate Division

101. **Mine Surveying.** II. 2 Hrs. Prereq.: C. E. 2. Mr. Staab

102s. **Mine Surveying.** S1. 5 Hrs. This course is a continuation of and gives practice supplementing E. M. 101. It must be taken during the summer term immediately following the semester in which E. M. 101 is taken. Mr. Lawall and Mr. Staab

106.* **Elementary Mineralogy.** I, II. 1 or 2 Hrs. Prereq.: Chemistry 4. Mr. Staab

107. **Mining Methods.** II. 4 Hrs. A study of the coal fields and mining methods of West Virginia and of the United States, supplemented by field work in the vicinity of Morgantown. Inspection trips, with written reports, are required. Prereq.: E. M. 111. Mr. Staab

111. **Mining.** I. 2 Hrs. Prereq.: Chemistry 6 and Physics 106. Mr. Staab

112. **Coal Mining.** II. 4 Hrs. Prereq.: E. M 111 Mr Lawall

113. **Mine Ventilation.** I. 3 Hrs. Prereq.: E. M. 112 and 107. Mr. Lawall

114. **Mine Management.** II. 1 Hr. Prereq.: E. M. 112. Mr. Lawall

115. **Mine Design.** I. 2 Hrs. Prereq.: E. M. 112 and registration in C. E. 122. Mr. Lawall and Mr. Staab

116. **Mine Design.** II. 3 Hrs. Continuation of E. M. 115, which is prerequisite. Mr. Lawall and Mr. Staab

118. **Mining Laboratory.** II. 3 Hrs. Prereq.: E. M. 112 and 202. Mr. Lawall and Mr. Staab

120. **Thesis.** I, II. 2 to 4 Hrs. An individual problem on some phase of mining. None but exceptional students having high scholastic standing will be permitted to elect this course. Mr. Lawall and Mr. Staab

201. **Oil and Gas Production.** I. 2 Hrs. Prereq.: Geology 3. Mr. Staab

202. **Coal Laboratory.** I. 1 Hr. Prereq.: Chemistry 6. Mr. Lawall and Mr. Staab

203.* **Geological Surveying.** II. 2 Hrs. Prereq.: E. M. 101 and Geology 161. Mr. Staab

204. **Oil and Gas Production.** I. 2 Hrs. Prereq.: E. M. 201. Mr. Staab

Graduate Division

351s. **Coal Mining.** S1. 3 Hrs. Prereq.: chemistry 10 hours, physics 8 hours, and accompanied or preceded by general geology. This course is designed especially for students who are planning to teach mining subjects in high school, and is not open to students taking E. M. 102s, 111, and 112. Hours to be arranged. Mr. Lawall and Mr. Staab

397, 398. **Research.** I, II. Credit to be arranged. An individual problem in some phase of mining. A carefully prepared report is required. Mr. Lawall and Mr. Staab

THE GRADUATE SCHOOL

ORGANIZATION

By order of the Board of Governors of West Virginia University a University Graduate School is established, whose roots are implanted in all University undergraduate work, irrespective of departments or schools. The Graduate School is empowered (1) to direct research and investigation with particular reference to the problems of the State, and (2) to train and recommend to the Board of Governors candidates for the degrees of Master of Science, Master of Science in the various Engineering branches, Master of Arts, and Doctor of Philosophy.

All regulations governing the Graduate School, such as the determination of curricula, projects, majors, minors, standards, thesis requirements, and like and similar matters shall be formulated by the Graduate Council and presented to the Graduate Faculty for its consideration and action.

STUDENT BODY

Seniors in the colleges of West Virginia University who are within 10 semester hours of graduation may, with the approval of the Graduate Council, enroll for courses in the Graduate School, for which they may receive graduate credit after obtaining their bachelors' degrees. Such graduate courses must not have been offered for undergraduate credit.

ADVISER

The adviser will arrange a specific course of study to be approved by the Council and, in the case of candidates for advanced degrees, will preside at the candidate's qualifying and final examinations.

REQUIREMENTS FOR GRADUATE DEGREES

(For a list of graduate degrees offered, see page 64.)

GENERAL REGULATIONS

1. *Candidacy:*

Admission to candidacy for any graduate degree is conditioned upon the fulfillment of the requirements for admission to the Graduate School, and also the particular requirements of undergraduate preparation for the field of study in which the student wishes to specialize. Detailed information concerning candidacy for the Master's degrees and the degree of Doctor of Philosophy may be found on the pages immediately following.

2. *Scholarship:*

No credits are acceptable toward an advanced degree which are reported with a grade lower than C.[1]

Reasonable standards or oral and written English must be maintained.

[1]For a description of the marking system in use in the University see page 61.

3. *Curriculum:*

Credit toward a graduate degree may be obtained only for courses listed in this Catalogue and numbered 200-399.

4. *Residence:*

Residence credit for special field assignments and for work taken off the University Campus shall be allowed only with the prior approval of the Graduate Council.

5. *Thesis and Problem Reports:*

All theses and problem reports shall be presented in the form prescribed by the Graduate Council at least one month previous to the Commencement Day on which the degree is expected. If the thesis or problem report is accepted, typewritten and bound copies shall be submitted to the Secretary of the Graduate Council at least one week before the degree is to be conferred; a minimum of three copies of master's thesis or problem report and a minimum of five copies of the doctor's thesis.

6. *Final Examination:*

The candidate shall not be eligible for the final examination until his thesis or problem report has been approved by the examining committee. Following the approval of the candidate's thesis or problem report and the satisfactory completion of the courses in residence and the satisfaction of other graduate requirements, he shall be given a final examination by his advisory committee.

7. *Commencement:*

At the time of registration for the semester or session in which the candidate expects to receive a graduate degree, he shall submit a formal request to the Chairman of the Graduate Council for the conferring of such degree. The candidate must have completed all requirements for the degree which he wishes to receive, at least one week before Commencement Day.

THE DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

REQUIREMENTS FOR CANDIDACY

Satisfactory fulfillment of General Regulation No. 1 for graduate degrees (stated above) will admit an applicant to candidacy.

REQUIREMENTS FOR COMPLETION

The completion within a period of 7 years immediately preceding the conferring of the degree, except with the permission of the Graduate Council, of not less than 30 credit hours of graduate work approved by the adviser and the Graduate Council.

Residence: A minimum of two semesters or five summer terms of residence in full-time graduate study at West Virginia University is required.

Thesis or Problem Report: A thesis or problem report granting not more than 6 hours of credit may be required by the faculty of the college, division or department in which the candidate's major interest lies.

Final Examination: An examination, oral or written or both at the option of the candidate's examining committee, shall be required, covering the candidate's thesis or problem report, studies in his major and minor fields, and his ability to apply facts and principles.

Special Requirements: The candidate must meet the special requirements of the department in which he pursues his major study.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Requirements for Candidacy

Admission to the Graduate School and enrollment in graduate courses does not of itself imply acceptance of the applicant for a doctor's degree. After a period of residence the applicant will be admitted to a comprehensive preliminary or qualifying examination (either oral or written or both) in which he must demonstrate (a) a grasp of the important phases and problems of the field of study in which he proposes to major and an appreciation of their relation to other fields of human knowledge and accomplishments, (b) the ability to employ rationally the instruments of research that have been developed in his major field, and (c) the ability to read French and German to the satisfaction of his examining committee.[1]

When an applicant has successfully passed his qualifying examination he will be formally promoted to candidacy for the doctor's degree. Admission to candidacy must precede the final examination for the doctor's degree by at least one academic year. Graduate courses pursued in fulfillment of the requirements for the master's degree, if of suitable character and quality, may be credited toward the doctorate.

Requirements for Completion

(a) *Curriculum:* The degree of Doctor of Philosophy is not awarded for the mere accumulation of course credits nor for the completion of a definite residence requirement. The exact amount and nature of course work to be undertaken by a candidate will be determined in the light of his previous preparation and the demands of his chosen field of application. The aggregate of correlated courses of graduate instruction should, however, be not less than 60 semester hours, ordered and distributed so as to promote broad and systematic knowledge and the ability to carry on independent research.

As soon as possible after the student registers the Chairman of the Graduate Council will refer him to the head of the department in which he proposes to conduct his major studies, who will assign him to an adviser. The head of the department and adviser will appoint an advisory and examining committee of the Graduate Faculty, which will outline the student's course of studies, approve his thesis and meet with him from time to time to plan and discuss his work.

[1]With the approval of the Graduate Council, one other language may be substituted for French or German.

(b) *Residence:* In general, the requirements for the Doctor of Philosophy degree contemplate at least three years of full-time graduate work beyond the bachelor's degree. A minimum of 36 weeks in residence in full-time graduate study at West Virginia University is required.

(c) *Thesis:* The candidate must submit a thesis pursued under the direction of the faculty of this University on some problem in the field of his major interest. The thesis must present the results of the candidate's individual investigations and must embody a definite contribution to knowledge.

(d) *Special Requirements:* The candidate must satisfy such special requirements subject to the approval of the Graduate Council, as may be required by the faculty of the college or department in which his major lies.

(e) *Final Examination:* If the candidate's thesis is approved and he has fulfilled all other requirements stated above, he will be admitted to final oral examination on his thesis before his examining committee. At the option of this committee, a comprehensive written examination may also be required.

THE COLLEGE OF LAW

PROGRAMME OF INSTRUCTION[1]

It is the primary aim of the law school to give the student an adequate preparation for the practice of law. This involves not merely imparting a knowledge of the legal rules and other materials which courts employ, but also, what is equally important, a training in the technique of legal thinking. The work of the student is based chiefly upon the study and discussion of decided cases and statutes, with collateral reading of textbooks and periodicals, elucidated by free discussion in the class. Special emphasis is given to those West Virginia cases and statutes which differ from the general law. Within limits, the school also seeks to inculcate an appreciation of the place of law in the ordering of society and to consider the problem of how law may more effectively adjust human relations.

The following programme of instruction is designed with these ends in view. The work of the first year is prescribed, with the exception of the courses in Workmen's Compensation and Criminal Procedure. All required courses are marked by an asterisk. Second-year courses may be elected by third-year students, but third-year courses will not in general be open to second-year students. Subjects that are given only in alternate years may be elected by either second or third-year students. Not less than 13 nor more than 15 hours may be carried without special consent of the Committee on Scholarship.

FIRST YEAR

*Agency. 3 Hrs.
Three hours a week in the second semester. Mechem, Cases on Agency (2d ed. by Seavey). Mr. Davis

*Common Law Remedies. 2 Hrs.
Two hours a week in the first semester. Sunderland, Cases on Common Law Pleading (2d ed.). Mr. Carlin

*Contracts. 6 Hrs.
Three hours a week throughout the year. Williston, Cases on Contracts (3d ed.). Mr. Donley

*Criminal Law. 3 Hrs.
Three hours a week in the first semester. Harno, Cases on Criminal Law and Procedure. Mr. Davis

Criminal Procedure. 1 Hr.
One hour a week in the second semester. Casebook and materials to be announced. Omitted in 1937-38 and alternate years thereafter.
Mr. Haymond

*Personal Property. 2 Hrs.
Two hours a week in the first semester. Bigelow, Cases on Personal Property (2d ed.). Mr. Williams

*Required course.
[1]The programme of courses as given here is subject to change.

*Real Property I. 4 Hrs.
Four hours a week in the second semester. Bigelow, Introduction to the Law of Real Property (2d ed.), and Aigler, Cases on Titles (2d ed.).
Mr. Williams

*Torts. 6 Hrs.
Three hours a week throughout the year. Bohlen, Cases on Torts (3d ed.).
Mr. Dickinson

Workmen's Compensation. 1 Hr.
One hour a week in the second semester. Selected materials. Given in 1937-38 and alternate years thereafter. Mr. Davis

SECOND YEAR

Bankruptcy. 2 Hrs.
Two hours a week in the first semester. Casebook to be announced.
Mr. Davis

*Common Law Pleading. (Including Drafting of Pleadings). 4 Hrs.
Four hours a week in the second semester. Sunderland, Cases on Common Law Pleading (2d ed.). Mr. Carlin

Damages. 2 Hrs.
Two hours a week in the second semester. Casebook to be announced.
Mr. Dickinson

*Equity I. 4 Hrs.
Four hours a week in the first semester. Cook, Cases on Equity (single volume, 2d ed.). Mr. Colson

*Evidence. 4 Hrs.
Four hours a week in the first semester. Morgan and Maguire, Cases on Evidence. Mr. Hardman

Insurance. 2 Hrs.
Two hours a week in the first semester. Vance, Cases on Insurance (2d ed.). Given in 1937-38 and alternate years thereafter. Mr. Haymond

*Legal Ethics. 1 Hr.[1]
One hours a week in the first semester. Hicks, Organization and Ethics of Bench and Bar. Mr. Donley

Negotiable Instruments. 3 Hrs.
Three hours a week in the second semester. Smith and Moore, Cases on Bills and Notes (3d ed.). Mr. Dickinson

Persons. 2 Hrs.
Two hours a week in the first semester. Madden, Cases on Domestic Relations. Mr. Colson

Quasi-Contracts. 3 Hrs.
Three hours a week in the second semester. Thurston, Cases on Quasi-Contracts. Mr. Donley

*Real Property II. 2 Hrs.
Two hours a week in the first semester. Bigelow, Cases on Rights in Land (2d ed.) (part). Mr. Williams

Real Property III. 4 Hrs.
Four hours a week in the second semester. Bigelow, Cases on Rights in Land (2d ed.) (part), and Leach, Cases on Future Interests.
Mr. Williams

*Required course.
[1]This course may be taken in the first, second, or third year.

Sales of Personal Property. 3 Hrs.
Three hours a week in the first semester. Woodward, Cases on Sales (3d ed.). Mr. Donley

Trusts. 4 Hrs.
Four hours a week in the second semester. Scott, Cases on Trusts (2d ed.). Mr. Colson

Use of Law Books. 1 Hr.
One hour a week in the first semester. Law Books and Their Use (6th ed.). Mr. Dickinson

THIRD YEAR

Business Units. 4 Hrs.
Four hours a week in the first semester. Richards, Cases on Corporations (3d ed. by Johnson). Mr. Williams

Conflict of Laws. 4 Hrs.
Four hours a week in the first semester. Beale, Cases on Conflict of Laws (2d ed.). Mr. Dickinson

Constitutional Law. 4 Hrs.
Four hours a week in the second semester. Casebook to be announced. Mr. Davis

Drafting Legal Instruments. 1 Hr.
One hour a week in the second semester. Mr. Carlin

Equity II. 2 Hrs.
Two hours a week in the second semester. Chafee, Equitable Relief Against Torts. Omitted in 1937-38 and alternate years thereafter. Mr. Colson

Equity Pleading and Practice. 2 Hrs.
Two hours a week in the first semester. Clephane, Equity Pleading and Practice, and selected cases and statutes. Mr. Carlin

Municipal Corporations. 2 Hrs.
Two hours a week in the second semester. Tooke, Cases on Municipal Corporations (2d ed.). Given in 1937-38 and alternate years thereafter. Mr. Colson

***Practice and Procedure.** 4 Hrs.
Four hours a week in the first semester. Selected cases, statutes and lectures. Mr. Carlin

***Practice Court.** 2 Hrs.
Court sessions and lecture periods in the second semester as specified by the faculty. Mr. Carlin and Judges

Public Utilities. 4 Hrs.
Four hours a week in the second semester. Robinson, Cases on Public Utilities (2d ed.). Mr. Hardman

*Required course.

PRACTICE COURT

Supplementing the procedural courses and, in particular, the course in Practice and Procedure, the College of Law conducts a Practice Court under the instruction and direct supervision of a member of the faculty. Its primary purpose is to give the students practical experience in coordinating and applying, in an actually litigated case, the legal knowledge which they have acquired in their classroom courses. The cases are tried exactly as they would be tried in an ordinary court. The first session is presided over by Professor Carlin, who has charge of the course in Practice Court, and the other sessions are presided over by a judge of the Supreme Court of Appeals or of one of the circuit courts of West Virginia.

The court exercises original jurisdiction in law and equity, and appellate jurisdiction in appeals from inferior tribunals. Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common law or equity. He must then frame his pleadings, serve his summons or notice, and answer his adversary's pleadings until issue is joined in legal manner. Thereupon the case is brought on for trial or hearing in strict accordance with legal procedure, witnesses are examined and cross-examined, and the case is conducted through all the various stages of trial or hearing down to and including the judgment, decree, or sentence; after which, should the case be appealed, it must be carried through the Supreme Court, involving the preparation of the record on appeal, briefs of counsel, and argument.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF LAWS

The degree of Bachelor of Laws is conferred upon those who have met the requirements for entrance to the College of Law as candidates for this degree and who have satisfactorily passed examinations, including comprehensive examinations, in courses aggregating eighty-one credit hours, distributed over three years' residence and carrying therewith fifty honor points. The grade of *A* carries five honor points per credit hour; *B*+, four honor points; *B*, three honor points; *C*+, two honor points; *C*, one honor point; and *D*, no honor points. A student who has received a grade of *D* in any course is privileged to take the next regular examination in that course for the purpose of raising his grade to one which carries with it honor points.

Honor points must be made in the College of Law of West Virginia University in the first eighty-one hours of work for which a student has enrolled. Except with the permission of the Scholarship Committee these eighty-one hours must be taken in no more than six semesters or the equivalent thereof in summer school and the last twenty-seven hours of work must be taken in the College of Law of West Virginia University. When a student, because of admission with advanced standing from another law school, needs less than eighty-one hours in order to satisfy the requirements for this degree, the number of honor points required for graduation is in proportion to the hours that must be taken in the College of Law, and the proportionate number of

honor points must be made by the end of the first eighty-one hours of work wherever taken. No student may receive the degree of Bachelor of Laws without at least one year in residence at the College of Law and the successful completion of courses aggregating twenty-seven hours. The Committee on Scholarship may permit a candidate for the degree of Bachelor of Laws to substitute for a required course a number of hours of other work deemed equivalent thereto.

GENERAL REGULATIONS

Written examinations are held at the end of each semester in all courses. Comprehensive examinations are given at the end of the third year. Reports of students' grades are made at the end of each semster.

All courses extend either through the entire year or through one semester. No credit will be given for less than an entire course except by special order of the Committee on Scholarship. A grade given at the end of the first semester in a course extending throughout the year does not carry credit, but such first-semester grade may be considered in determining the final grade.

Final grades are based primarily on the written examinations. But in determining a grade the instructor may give such weight as he deems best to daily recitations or other classroom assignments. He may refuse examination to any student because of poor attendance.

No student who absents himself from any regular examination without being excused therefrom by the faculty of the College of Law will receive credit unless he successfully repeats the course. If absence from a final examination is permitted by the faculty, the student's grade in that course will be withheld until he has passed the next regular examination in the course. Application for leave to be absent from a regular examination must be made before the hour at which such examination closes.

If a student fails more than half his work, computed in terms of the semester hours carried, he is excluded from the school. Upon application to the Scholarship Committee of the College of Law, a student who has been so excluded may be readmitted, but with the understanding that if he again fails more than half his work his exclusion becomes final.

A student must also receive fifteen honor points by the end of the first year, twenty-five honor points by the end of the third semester, and thirty-five honor points by the end of the second year, or he will be refused reregistration in the College of Law. In a meritorious case, however, a student who fails to maintain this honor-point requirement may be reinstated by the Scholarship Committee, upon such conditions as the Committee may impose.

Unless previously excluded on account of poor scholarship, a student who is suspended from the College of Law because of not having sufficient honor points may take the next regular examination in any course or courses in which he has received a grade of *D*. But in order to be reinstated he must make at least a grade of *C* in each course in which he takes such re-examination. No special examinations will be given under this rule.

WEST VIRGINIA LAW QUARTERLY

The West Virginia Law Quarterly is published in December, February, April, and June by the College of Law. It is the official publication of the West Virginia Bar Association.

The editors of the Student Note and Recent Case Department of the Law Quarterly are members of the second and third-year classes, chosen each year from those students who made the highest grades in the preceding year. This department affords to students an opportunity to do research work of a practical nature.

STUDENTS IN OTHER COLLEGES

Students of at least senior standing in other colleges of the University may be permitted to take work in the College of Law subject to the regulations of the colleges where they are registered and of the College of Law, but conditioned in each case upon the consent of the instructor giving the courses which such students desire to take.

ADMISSION TO THE BAR

Under the provisions of the West Virginia Code 1931, ch. 30, art. 2, sec. 1, those who receive the degree of Bachelor of Laws from West Virginia University may be admitted to the bar without further examination.

All persons seeking admission to the West Virginia bar, except those who hold the degree of Bachelor of Laws from West Virginia University, are required to pass the state bar examination.

Information as to bar examinations and as to other matters relating to admission to the bar may be obtained upon inquiry directed to the Secretary, State Board of Law Examiners, Charleston, W. Va.

THE SCHOOL OF MEDICINE

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, requirements as to residence, classification of students, examinations, and grades, as set forth in the General Information section (Part II) of this Catalogue.

INSTRUCTION IN MEDICINE

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

The West Virginia University School of Medicine has its own dean and faculty, but inasmuch as it gives only the first two years of the medical course, it confers no degrees in medicine. However, it cooperates with the College of Arts and Sciences in granting the Bachelor of Science degree on the completion of the two years of medicine to students who have satisfied all the requirements specified by the College of Arts and Sciences on pages 113 and 114 of this Catalogue.

The School of Medicine is not affiliated with any other school of medicine. Its students may go where they like to complete their medical education.

MEDICAL CURRICULUM

The following courses are offered in the School of Medicine. Only the first two years of medicine are given in West Virginia University.

SCHEDULE OF COURSES

COURSES	Hours Per Week			Hours Per Semester			PERIODS	Credits
	Lect.	Lab.	Total	Lect.	Lab.	Total		
First Year—First Semester								
Anatomy 101	4	11	15	68	187	255	Lab. M. T. Th. F. 3-5, W. 2-5, Lect. M. T. Th. F. 2	7
Histology 101	2	8	10	34	136	170	Lab. T. Th. 9-12, S. 9-11, Lect. T. S. 8	5
Biochemistry 101	3	10	13	51	170	221	Lab. M. W. 9-12, F. 8-12, Lect. M. W. Th. 8	6
First Year—Second Semester								
Bacteriology 102	2	8	10	34	136	170	Lab. T. W. Th. F. 10-12, Lect. T. Th. 9	5
Embryology 102 First half of semester	4	7	11	34	59	93	Lab. M. 8-12, Th. 2-5, Lect. T. Th. F. 8, W. 9	3
Neurology 103 Second half of semester	4	7	11	34	59	93	Lab. M. 8-12, Th. 2-5, Lect. T. Th. F. 8, W. 9	3
Anatomy 102	1	8	9	17	136	153	Lab. M. F. 2-5, W. 3-5, Lect. W. 2	3
Physiology 102	1	3	4	17	51	68	Lab. T. 2-5, Lect. F. 9	2
Pharmacology 101	1	2	3	17	34	51	Lab. S. 9-11, Lect. S. 8	1

SCHEDULE OF COURSES—(Continued)

Second Year—First Semester

Pathology 101	5	12	17	76	204	280	Lab. M. W. F. 1-5, Lect. M. T. W. Th. F 10	9
Physiology 103	5	6	11	85	102	187	Lab. T. Th. 2-5, Lect. M. T. W. Th. F. 9	7
Pharmacology 102	2	..	2	34	...	34	Lect. M. F. 8	2
Hygiene 103	2	..	2	34	...	34	Lect. T. Th. 11	2

Second Year—First Half of Second Semester

Pharmacology 103	5	9	14	42	76	118	Lab. M. W. F. 2-5, Lect. M. T. W. Th. 8, F. 1	4
Applied Anatomy 104	2	6	8	17	51	68	Lab. T. Th. 2-5, Lect. T. Th. 9	2
Obstetrics 101	4	..	4	34	...	34	Lect. M. T. W. Th. 10	2
History of Medicine 103	1	..	1	8	...	8	Lect. T. 11	0
Clinical Pathology 103	1	..	1	8	...	8	Lect. Th. 11 (Cont.)	
Physical Diagnosis 101	2	2	4	17	17	34	Lab. F. 8-10 (Cont.) Lect. M. W. 9 (Cont.)	
Medicine 102	1	..	1	8	...	8	Lect. F. 10 (Cont.)	
Surgery 101	2	..	2	17	...	17	Lect. M. W. 11 (Cont.)	

Second Year—Second Half of Second Semester

Clinical Pathology 103	1	12	13	7	100	107	Lab. M. T. W. Th. F. 3-5 T 8-10 Lect. T. 10	3
Physical Diagnosis 101	2	2	4	17	17	34	Lab Sec. A. & B, F. 8-10 Sec. C. & D. W. 8-10, Lect. All Sec. T. Th. 2	3
Medicine 102	3	2	5	25	17	42	Ward. Sec. A, M. W. 9, Sec. B. M. W. 10, Sec. C, Th. F. 9, Sec. D, Th. F. 10, Lect. M. W. F. 2	3
Surgery 101	3	2	5	25	17	42	Ward. Sec. A, M. W. 10, Sec. B, M. W. 9, Sec. C, Th. F. 10, Sec. D, Th. F. 9, Lect. Sec. A, & B, M. W. 11, Sec. C. & D. Th. F. 11 All Sec. T. 11	3

COURSES OF INSTRUCTION

GROSS ANATOMY AND NEUROLOGY

Professor CHANDLER; Assistant Professor LAWLESS; Instructor GODWIN

101. **Gross Anatomy.** I. 7 Hrs. Required of all first-year students. Lectures and recitations, 4 hours per week; laboratory, 11 hours per week. Prereq.: Zoology 1 and 2, comparative anatomy desirable.
Dr. Chandler and Staff

102. **Gross Anatomy.** II. 3 Hrs. Required of all first-year students. Continuation of Anatomy 101. Lecture, 1 hour per week; laboratory, 8 hours per week. Prereq.: Anatomy 101. Mr. Lawless and Godwin

103. **Neurology.** II. 3 Hrs. Required of all first-year students. Lectures, 4 hours per week; laboratory, 7 hours per week. Second half of semester. Prereq.: Histology 101, Anatomy 101. Dr. Chandler

104. **Applied Anatomy.** II. 2 Hrs. Required of all second-year students. Lectures, 2 hours per week; laboratory, 6 hours per week. First half of semester. Prereq.: Anatomy 101 and 102, Neurology 103, and Embryology 102. Dr. Chandler

209. **Anatomy of the Sympathetic Nervous System.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

210. **Applied Anatomy of the Pelvis and Perineum.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler and Staff

381. **Advanced Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Chandler

HISTOLOGY AND EMBRYOLOGY

Professor DODDS; Instructor GODWIN

101. **Histology.** I. 5 Hrs. Required of all first-year students. Lectures, 2 hours per week; laboratory, 8 hours per week. Prereq.: Zoology 1 and 2, Anatomy 101, or concurrent registration.
Mr. Dodds and Mr. Godwin

102. **Embryology.** II. 3 Hrs. Required of all first-year students. Lectures, 4 hours per week; laboratory, 7 hours per week. First half of semester. Prereq.: Histology 101 and Anatomy 101.
Mr. Dodds and Mr. Godwin

201. **The Histology of the Skeletal System.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Laboratory work and study of current literature. Mr. Dodds

202. **The Placenta and Fetal Membranes.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Mr. Dodds

381. **Research in Microscopic or Developmental Anatomy.** 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Mr. Dodds

PATHOLOGY

Professor FENTON; Assistant Professor ANDES

101. **General, Special, and Tumor Pathology.** I. 9 Hrs. Required of second-year students. Lecture, 4 hours per week; laboratory, 12 hours per week. Demonstrations. Prereq.: Biochemistry 101, Histology 101, Physiology 102, Anatomy 101 and 102, and Bacteriology 101.
Dr. Fenton and Staff

103. **Clinical Pathology.** II. 3 Hrs. Required of second-year students. A laboratory course in blood, gastric contents, etc., and their pathological and clinical significance. Lecture, 1 hour per week throughout the semester; laboratory, 12 hours per week, second half of semester Prereq.: Bacteriology 101, Physiology 102 and 103, Biochemistry 101, and Pathology 101. Dr. Fenton and Staff

201. **Pathology (Special).** I or II. 3 Hrs. Microscopic and gross specimens from selected autopsies. Prereq.: Pathology 101.
Dr. Fenton and Staff

381. **Experimental Pathology.** I or II. 2-5 Hrs. Hours to be arranged. Open to properly qualified students. Dr. Fenton

PHYSIOLOGY AND BIOCHEMISTRY

PHYSIOLOGY

Professor VAN LIERE; Assistant Professor NORTHUP; and Instructor SLEETH

101. **Physiology.** II. 4 Hrs. Elementary course for pharmacy students. Lecture, 3 hours per week; laboratory, 3 hours per week. Mr. Northup

102. **Physiology.** II. 2 Hrs. Required of first-year medical students. Physiology of the muscle and nerve. Lecture, one hour per week; laboratory, 3 hours per week. Prereq.: Biochemistry 101 and Histology 101. Dr. Van Liere and Staff

103. **Physiology.** I. 7 Hrs. Required of second-year students. Physiology of circulation, respiration, digestion, metabolism, secretion, endocrines, central nervous system, and special senses. Lecture 5 hours per week; laboratory 6 hours per week. Prereq.: Physiology 102, Anatomy 101 and 102, and Neurology 103. Dr. Van Liere and Staff

205. **Seminar in Physiology.** Yr. No credit Staff

207. **Advanced Physiology of Circulation and Respiration.** Yr. 2-5 Hrs. Hours to be arranged. Dr. Van Liere

208. **Physiology of Gactro-intestinal System.** II. 2-5 Hrs. Hours to be arranged. Dr. Van Liere

209. **Nervous Physiology and Special Senses.** Yr. 2-5 Hrs. Hours to be arranged. Mr. Northup

381. **Physiology.** I or II. 2-5 Hrs. Research in Physiology leading to the Master of Science degree. Dr. Van Liere and Mr. Northup

BIOCHEMISTRY

Assistant Professors RAFFERTY[1] and DAVIDSON; Instructor MACLACHLAN; and Assistant KLYZA

101. **Biochemistry.** I. 6 Hrs. Lectures, 3 hours per week; laboratory, 10 hours per week. Prereq.: inorganic and organic chemistry, quantitative analysis, and zoology. Mr. Davison and Staff

202. **Chemistry of Carbohydrates, Fats and Proteins.** I. 5 Hrs. Lectures, 2 hours per week; laboratory, 6 hours per week. Prereq.: inorganic chemistry, organic chemistry, and qualitative analysis. Mr. Davison and Staff

203. **Chemistry of Digestion, Metabolism, and Excretion.** II. 5 Hrs. Lectures, two hours per week; laboratory, 6 hours per week. Prereq.: inorganic chemistry, organic chemistry, and qualitative analysis. Mr. Davison and Staff

204. **Quantitative Methods of Urine and Blood Analysis.** II. 5 Hrs. Lectures, two hours per week; laboratory, 6 hours per week. Open to properly qualified students. Mr. Davison

205. **Biochemical Preparations.** I or II. 3 Hrs. Mr. Davison

206. **Biochemical Preparations.** I or II. 3 Hrs. Mr. Davison

[1]On leave 1936-37.

PHARMACOLOGY

Assistant Professors EMERSON, DAVISON, and RAFFERTY[1]; Assistant KLYZA

101. **Chemical Pharmacology.** II. 1 Hr. Required of first-year students. Lecture, one hour per week; laboratory, two hours per week. Prereq.: Inorganic and organic chemistry, zoology and biochemistry 101. Mr. Davison and Staff

102. **Systematic Pharmacology.** I. 2 Hrs. Required of second-year students. Lecture, two hours per week. Biochemorphology, anaesthesia, and narcosis. Prereq.: Pharmacology 101, Physiology 102, and Biochemistry 101. Mr. Emerson

103. **Pharmacodynamics and Systematic Pharmacology.** II. 4 Hrs. Required of second-year medical students. Lecture, 5 hours per week; laboratory, 9 hours per week. First half of semester. Prereq.: Pharmacology 102. Mr. Emerson and Staff

201. **Biochemorphology.** I and II. 2-5 Hrs. Hours to be arranged. Advanced systematic pharmacology based upon elementary biochemorphology in Pharmacology 102 and 103. Mr. Emerson

202. **Toxicology.** I. Credit 2-5 Hrs. A special course devoted to the study of methods—chemical and biological—of detecting poisons of medicolegal interest. Lecture and laboratory 4 hours per week. Prereq.: Pharmacology 101 and 102. Mr. Davison

381. **Pharmacology Research.** II. 2-5 Hrs. Hours to be arranged. Problems open to specially interested students with proper qualifications. Mr. Emerson and Mr. Davison

BACTERIOLOGY AND PUBLIC HYGIENE

Professor SPRAY; Instructor STANLEY

101. **Medical Bacteriology.** I. 5 Hrs. Required of Pharmacy students. Open to other qualified students. Lectures, 2 hours per week; laboratory, 8 hours per week. Prereq.: Chemistry 36. Mr. Stanley

102. **Medical Bacteriology.** II. 5 Hrs. Required of first-year students. Lecture, two hours per week; laboratory, 8 hours per week. Prereq.: Biochemistry 101. Mr. Spray and Staff

103. **Public Hygiene.** I. 2 Hrs. Required of second-year students. Lecture, two hours per week. Prereq.: Bacteriology 102 Mr. Spray

201. **Advanced Bacteriology.** I. 2-5 Hrs. Open to graduates and advanced students. Mr. Spray

202. **Advanced Bacteriology.** I or II. 2-5 Hrs. Hours to be arranged. Open to graduates and advanced students. Mr. Spray

381. **Advanced Bacteriology.** I or II. Credit 2-5 Hrs. Prereq.: Bacteriology 102 or equivalent. Mr. Spray

[1]On leave 1936-37.

MEDICINE

Associate Professor WHITTLESEY; Assistant Professors MAXWELL and SUMMERS; Instructor CADDEN; Demonstrator SALKIN

PHYSICAL DIAGNOSIS

101. **Physical Diagnosis.** II. 3 Hrs. Required of second-year students. An introductory course to history-taking and physical examination of patients. First half of semester: lecture, 2 hours per week; laboratory, 2 hours per week. Second half of semester: lecture, 2 hours per week; practical work with patients, 2 hours per week. Hospital clerkship at Hopemont Sanitarium one week under the supervision of the Sanitarium staff. Prereq.: Anatomy 101 and 102 and Physiology 103. Sec. A, Dr. Summers; Sec. B, Dr. Maxwell; Sec. C, Dr. Whittlesey. Clerkship at Hopemont, Dr. Cadden and Dr. Salkin. Dr. Whittlesey

THEORETICAL MEDICINE

Associate Professor WHITTLESEY

102. **Theoretical Medicine.** II. 3 Hrs. Required of second-year students. Lectures and recitations in medicine including general problems of pathological physiology. First half of semester: lecture, 1 hour per week. Second half of semester: lecture, 3 hours per week; demonstration of clinical cases, 2 hours per week. Medical problems are also considered in the clerkship at Hopemont Sanitarium. Prereq.: Anatomy 101 and 102 and Physiology 103. Dr. Whittlesey

HISTORY OF MEDICINE

Dean Emeritus SIMPSON

103. **History of Medicine.** II. No credit. A brief history of the development of medicine. Required of second year students. Dr. Simpson

INTRODUCTORY SURGERY

Assistant Professor PRIDE

101. **Principles of Surgery and Demonstrations of Clinical Cases.** II. 3 Hrs. Required of second-year students. First half of semester: lecture, 2 hours per week. Second half of semester: lecture, 3 hours per week; demonstrations of clinical cases and operative technique, 2 hours per week. Prereq.: Anatomy 101 and 102, Applied Anatomy 104 to be taken concurrently. Dr. Pride

OBSTETRICS

Professor VAN LIERE

101. **Obstetrics.** II. 2 Hrs. Required of second-year students. An introductory course in obstetrics. Lecture, 4 hours per week. First half of semester. Prereq.: Anatomy 101 and 102. Physiology 102 and 103 and Pathology 101. Dr. Van Liere

THE DIVISION OF MILITARY SCIENCE AND TACTICS

Professor DEVORE; Assistant Professors ADAIR, SMITH, WILSON, ond KIRCHHOFF; Assistants SCHULTZ, DEARBORN, and YOUNG

Basic—First Year

1. **Military Science.** 1 Hr
   Infantry: National Defense Act, military courtesy and discipline, leadership and command, rifle marksmanship, map reading, military sanitation and first aid.
   Engineers: National Defense Act, military courtesy and discipline, leadership and command, rifle marksmanship, map and aerial-photograph reading, military sanitation and first aid.

2. **Military Science.** 1 Hr.
   Infantry and Engineers: Leadership and command, rifle marksmanship.

Basic—Second Year

3. **Military Science.** 1 Hr.
   Infantry: Leadership and command, musketry, combat principles of the squad, automatic rifle.
   Engineers: Leadership and command, weapons and musketry, scouting and patrolling, military sketching, map making.

4. **Military Science.** 1 Hr.
   Infantry: Leadership and command, scouting and patrolling.
   Engineers: Leadership and command, combat principles of the squad, rigging.

Advanced—First Year

105. **Military Science.** 1 Hr.
   Infantry: Leadership and command, machine guns, howitzer company weapons, aerial photograph reading, pistol.
   Engineers: Leadership and command, interior guard duty, combat orders and solutions of engineer problems, combat principles of infantry units, military explosives and demolitions, care of animals and stable management, military bridges.

106. **Military Science.** 1 Hr.
   Infantry: Leadership and command, combat principles.
   Engineers: Leadership and command, military roads, field fortifications.

Advanced—Second Year

107. **Military Science.** 1 Hr.
   Infantry: Leadership and command, company administration and supply, military history and policy, mechanization and tanks, signal communications, combat intelligence, military law.
   Engineers: Leadership and command, administration, supply and mess management, military history and policy, combat principles, organization and duties of engineers, military law.

108. **Military Science.** 1 Hr.
   Infantry: Leadership and command, anti-aircraft defense, defense against chemical warfare, combat principles.
   Engineers: Leadership and command; defense against chemical warfare; organization of the ground; fixed bridges; law of military offense; construction in war; property, emergency procurement, and funds.

THE SCHOOL OF MUSIC

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, requirements as to residence, classification of students, examinations, grades, and honor points, as set forth in the General Information section (Part II) of this Catalogue.

The descriptive material on the following pages outlines the curricular requirements for the degree in music. A more extended description of the organization and work of the School of Music appears on pages 37 and 38. For statement concerning fees, see page 59.

REQUIREMENTS FOR THE DEGREE

The degree of Bachelor of Music (B. Mus.) is regularly conferred in the School of Music. It is conferred upon any student who complies with the general regulations of the University concerning degrees, satisfies all entrance and departmental requirements, and completes one of the following curricula in applied music (136 hours) with an average of one honor point per credit hour:

A. Piano, violin, or pipe organ
B. Voice
C. Public-school music

SUGGESTED CURRICULUM IN APPLIED MUSIC

Leading to the Degree of Bachelor of Music in

PIANO, VIOLIN, OR PIPE ORGAN

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: major instrument, (2); minor in applied music (1); English 1 (3); French, German, or Italian (3); Sight Reading 73 (3); History of Music 140 (3); Glee Club or Orchestra (1); physical education or military science (1). Total, 17 hrs.

FIRST YEAR, SECOND SEMESTER: major instrument (2); minor in applied music (1); English 2 (3); French, German, or Italian (3); Sight Reading 74 (3); History of Music 141 (3); Glee Club or Orchestra (1); physical education or military science (1). Total, 17 hrs.

SECOND YEAR, FIRST SEMESTER: major instrument (2); minor in applied music (1); English 3 (3); French, German, or Italian (3); Ear Training 75 (3); Theory 1 (2); Ensemble 153 (1); Glee Club or Orchestra (1); physical education or military science (1). Total, 17 hrs.

SECOND YEAR, SECOND SEMESTER: major instrument (2); minor in applied music (1); English 4 (3); French, German, or Italian (3); Ear Training 76 (3); Theory 2 (2); Ensemble 154 (1); Glee Club or Orchestra (1); physical education or military science (1). Total, 17 hrs.

THIRD YEAR: major instrument (4); minor in applied music (2); French, German, or Italian (3); Theory 103 (3); 104 (3); 109 (3); 110 (3); Keyboard Harmony 115 (2); 116 (2); Public Speaking 3 (3); 11 (3); Electives (3). Total, 34 hrs.

FOURTH YEAR: major instrument (4); minor in applied music (2); Theory 111 (2); 112 (2); 113, 114, 117, and 118 (2 each); Ensemble 155 and 156 (1 each); Appreciation 179 (3); 180 (3); Graduate Recital (2); Sight Playing 132 (2); 133 (2); electives (2). Total, 34 hrs.

SUGGESTED CURRICULUM IN APPLIED MUSIC

Leading to the Degree of Bachelor of Music in

VOICE

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: voice (2); piano (1); English 1 (3); French, German, or Italian (3); Sight Reading 73 (3); Glee Club (1); Public Speaking 3 (3); physical education or military science (1). Total, 17 hrs.

FIRST YEAR, SECOND SEMESTER: voice (2); piano (1); English 2 (3); French, German, or Italian (3); Sight Reading 74 (3); Glee Club (1); Public Speaking 11 (3); physical education or military science (1). Total, 17 hrs.

SECOND YEAR, FIRST SEMESTER: voice (2); piano (1); English 3 (3); French, German, or Italian (3); Ear Training 75 (3); Theory 1 (2); Glee Club (1); physical education or military science (1). Total, 16 hrs.

SECOND YEAR, SECOND SEMESTER: voice (2); piano (1); English 4 (3); French, German, or Italian (3); Ear Training 76 (3); Theory 2 (2); Glee Club (1); physical education or military science (1); elective (2). Total, 18 hrs.

THIRD YEAR: voice (4); piano (2); Appreciation 179 (3); and 180 (3); Theory 103 (3); 104 (3); 109 (3); 110 (3); Theory 111 (2); 112 (2); French, German, or Italian (6). Total, 34 hrs.

FOURTH YEAR: voice (4); piano (2); History of Music 140 (3); 141 (3); 113 (2); 114 (2); Ensemble 153 (1); 154 (1); Graduate Recital (2); electives (14). Total, 34 hrs.

SUGGESTED CURRICULUM IN PUBLIC-SCHOOL MUSIC

Leading to the Degree of Bachelor of Music in

PUBLIC-SCHOOL MUSIC

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: piano (2); Sight Reading 74 (3); Glee Club (1); orchestra class (1); English 1 (3); social studies (3); science (3); physical education (1). Total, 17 hrs.

FIRST YEAR, SECOND SEMESTER: piano (2); orchestra class (1); Glee Club (1); English 2 (3); social studies (6); science (3); physical education (1). Total, 17 hrs.

SECOND YEAR, FIRST SEMESTER: piano (2); Ear Training 76 (3); Theory 1 (2); History of Music (3); Glee Club (1); English (2); social studies (3); physical education (1). Total, 17 hrs.

SECOND YEAR, SECOND SEMESTER: piano (2); Theory 2 (2); orchestra classes (2); Glee Club (1); public speaking (2); social studies (3); physical education (1); second field and electives (4). Total, 17 hrs.

THIRD YEAR: voice (4); Appreciation 179 (3); 180 (3); orchestra class (1); Education 106 (3); 109 (3); 112 (2); 214 (2); physical education (2); second field and electives (11). Total, 34 hrs.

FOURTH YEAR: voice (4); Conducting 182 (2); Adolescent Voice 183 (2); Education 169 (2); 224 (3); 120 (3); education elective (2); second field and electives (16). Total, 34 hrs.

PUBLIC-SCHOOL MUSIC

Assistant Professor HINKEL

NOTE: Credit hours are shown in parentheses after course designations.

All students majoring in Public-School Music must meet the general academic and professional requirements for all high-school teachers as prescribed in the *Teachers' Training Bulletin No. 7*, in addition to the following music requirements:

Sight reading (3 to 6*); ear training (3 to 6*); piano (8); voice (8); theory (harmony) (4); history of music (3); orchestra class (5); Glee Club (4); conducting (2); appreciation (6); adolescent voice (2).

It is suggested that all students majoring in public-school music choose their electives from the music courses.

*Depending upon qualifications at entrance.

COURSES OF INSTRUCTION

(For explanation of abbreviations see page 87.)

THEORY OF MUSIC AND GENERAL COURSES*

Professor CUTHBERT; Assistant Professors HINKEL, WOOD, and SHEPARD; Instructors MOORE, SNEE and MCGREGOR; Assistant MCWHORTER

1. **Introductory Harmony.** I. 2 Hrs. Prereq.: Knowledge of piano keyboard. Intervals, scales. Triad formations, etc. Mr. Shepard

2. **Intermediate Harmony.** II. 2 Hrs. Prereq: Theory 1. Inversion. Chords of the dominant seventh and ninth. Mr. Shepard

72. **Introduction to Music.** I, II. 2 Hrs. Introduction to music and fundamentals of reading. Miss Hinkel

*No additional fees are charged for theory of music and general courses.

73. **Sight Reading.** I. 3 Hrs. Study and practice in reading music of moderate difficulty. Miss Hinkel

74. **Sight Reading.** II. 3 Hrs. Advanced Reading. Miss Hinkel

75. **Ear Training and Dictation.** I. 3 Hrs. Rhythmic and melodic dictation involving simple elements. Miss Hinkel

76. **Ear Training and Dictation.** II. 3 Hrs. Advanced problems. Miss Hinkel

77. **Enjoyment of Music.** I, II. 1 Hr. A non-technical course dealing with the elements of music—rhythm, timbre, form, harmony, melody, etc. Not open to music majors. Mr. Shepard and Mr. Wood

103. **Advanced Harmony.** I. 3 Hrs. Prereq.: Theory 1 and 2. Modulations in various forms, and employment of altered and mixed chords. Mr. Wood

104. **Advanced Harmony.** II. 3 Hrs. Study of inharmonic tones; study of and practice in the writing of chorals. Mr. Wood

109. **Introductory Counterpoint.** I. 3 Hrs. Association of two-tone lines in the first four species. Mr. Shepard

110. **Counterpoint.** II. 3 Hrs. Rhythmic diversity, etc.; the two-voice invention. Mr. Shepard

111. **Harmonic Analysis.** I. 2 Hrs. Practice in accounting for chords and foreign tones which make up the harmonic structure. Mr. Shepard

112. **Analysis and Form.** II. 2 Hrs. Continuation of Theory 111 and study of smaller forms. Mr. Shepard

113. **Introductory Composition.** I. 2 Hrs. Prereq.: Theory 1, 2, 103, 104. Practice in writing original phrases, periods, and double periods. Mr. Shepard

114. **Composition.** II. 2 Hrs. Prereq.: Theory 113. Continuation of original writing, including the song forms. Mr. Shepard

115. **Keyboard Harmony.** I. 2 Hrs. Playing of triads, fundamental and inverted positions, modulation and transposition of simple hymn forms. Miss Moore

116. **Keyboard Harmony.** II. 2 Hrs. Continuation of Theory 115. Miss Moore

117. **Orchestration.** I. 2 Hrs. Prereq.: Theory 1 and 2. Arrangements for string orchestra. Projects selected from choral and piano compositions. Elements of wood winds. Mr. Wood

118. **Orchestration.** II. 2 Hrs. Prereq.: Theory 117. Arrangements for wood winds and brasses, in separate groups and ensemble. Mr. Wood

132, 133. **Sight Playing.** I and II. 2 Hrs. per semester. Arranged for classes of two or four; rhythmic scale work, study of overtures, quartettes, symphonies, and modern compositions. Miss Moore

140. **History of Music.** I. 3 Hrs. A survey of the progress of music history from medieval times to the end of the classical school period. Mr. Wood

141. **History of Music.** II. 3 Hrs. A continuation of Music 140 including the romantic and modern schools. Mr. Wood

179. **Appreciation.** I. 3 Hrs. Application of the content of the art of music to the development of taste and discrimination in estimating its value. Critical evaluations. Required for certification in music. Miss Hinkel

180. **Appreciation.** II. 3 Hrs. Continuation of 179. Required for certification in music. Miss Hinkel

181. **Appreciation.** I, II. 2 Hrs. Continuation of 180. Miss Hinkel

182. **Conducting.** II. 2 Hrs. Study of the conductor's art and its technique. Miss Hinkel

183. **Adolescent Voice.** I. 2 Hrs. Study of the changing voice. Miss Hinkel

Women's Glee Club. I, II. 1 Hr. each semester. Miss Hinkel

Men's Glee Club. I, II. 1 Hr. each semester. Mr. Cuthbert

University Orchestra. I, II. 1 Hr. each semester. Mr. Wood

VOICE

Professor CUTHBERT; INSTRUCTOR MCGREGOR; Assistant MCWHORTER

The material used is selected according to individual needs and ability. Vocalises; English, Italian, French, and German song literature; arias from standard operas and oratorios. Before graduation each student is required to give a public recital of selections chosen from the standard literature for the voice.

199. **Graduation Recital.** I, II. 2 Hrs. (Required for degree).
1 lesson per week, 1 Hr.
2 lessons per week, 2 Hrs.

PIANO

Assistant Professor SHEPARD; Instructors MOORE and SNEE;
Assistant MCWHORTER

The material used is selected according to individual needs and ability. Technical studies, etudes, and standard compositions of Bach, Mozart, Haydn, Beethoven, Schubert, Schumann, Chopin, Liszt, Brahms, Debussy, Dohnanyi, Scriabine, etc. Before graduation, each student is required to give a public recital.

199. **Graduation Recital.** I, II. 2 Hrs. (Required for degree).
1 lesson per week, 1 Hr.
2 lessons per week, 2 Hrs.

VIOLIN

Assistant Professor WOOD

The material used is selected according to individual needs and ability. Technical studies by Schradieck, Sevcik, etc. Solos and concertos by Wieniawski, Vieuxtemps, Sarasate, Viotti, Spohr, Mozart, etc. Before graduation each student is required to give a public recital of compositions chosen from the standard literature for the violin, including concertos of Bruch, Mendelssohn, Conus, Paganini, etc.

199. **Graduation Recital.** I, II. 2 Hrs. (Required for degree).
1 lesson per week, 1 Hr.
2 lessons per week, 2 Hrs.

PIPE ORGAN

Instructor SNEE

The material used is selected according to individual needs and ability. Technique; standard works of Bach, Mendelssohn, Guilmant, Hollins, etc. Before graduation each student is required to give a public recital of compositions chosen from the standard literature for the pipe-organ.

199. **Graduation Recital.** I, II. 2 Hrs.
1 lesson per week, 1 Hr.
2 lessons per week, 2 Hrs.

BAND AND ORCHESTRA INSTRUMENTS

Assistant Professor WOOD and Instructor MCGREGOR

Individual lessons; standard methods; materials selected to meet individual needs and ability.

1 lesson per week. I, II. 1 Hr.
2 lessons per week. I, II. 2 Hrs.

ENSEMBLE

Professor CUTHBERT and Assistant Professor WOOD

153, 154. **Accompanying.** I and II. 1 Hr. per semester. The course furnishes opportunity to acquire the art of accompanying songs and violin and cello solos.

155, 156. **Chamber Music.** I and II. 1 Hr. per semester. The study of sonatas, trios, and string quartettes of the most famous composers. Open to violinists, cellists, pianists, and viola players.

CLASSES IN ORCHESTRA INSTRUMENTS[1]

Assistant Professor WOOD and Instructor MCGREGOR

91. **Trombone.** I, II. 1 Hr. Study of the trombone. Tone production, simple exercises and scales, easy pieces, positions of the slide trombone, and their relationship. Literature of brass instruments.

[1]Students may use their own instruments, or instruments may be rented for a fee of $2.50 per semester.

92. **Cornet.** I, II. 1 Hr. Study of the cornet. Tone production, simple exercises and scales, easy pieces, fingering of cornet. Literature of brass instruments.

93. **Clarinet.** I, II. 1 Hr. Study of the clarinet. Boehm system. Tone production, simple scales and exercises.

194. **Violin.** I, II. 1 Hr. Study of the violin. Scales, simple pieces, exercises, positions, tuning, etc.

195. **Flute.** I, II. 1 Hr. Study of the flute. Boehm system. Tone production, simple scales and exercises.

196. **Viola and Cello.** I, II. 1 Hr. Study of the viola and cello. Scales, simple pieces, exercises, positions, tuning, etc.

PUBLIC-SCHOOL MUSIC

185. **Public-School Music.** I, II. 2 Hrs. Essentials of public-school music.
Miss Hinkel

THE COLLEGE OF PHARMACY

ORGANIZATION

For more than twenty years pharmacy was taught in a department of the School of Medicine. By an order of the Board of Governors, on June 6, 1936, the Department of Pharmacy of the School of Medicine was discontinued and the College of Pharmacy was created in its stead as a separate unit of the University.

OBJECTIVES

The chief purpose of the College of Pharmacy is to provide a systematic instruction in pharmacy, its allied sciences, and such other subjects as are deemed to be essential in the education of a pharmacist, that he may meet the present and future demands of the profession in an able and intelligent manner. Its chief aim is to prepare its students for the intelligent practice of dispensing pharmacy, but it offers the facilities and instruction necessary for the practice of other branches of the profession.

INSTRUCTION IN PHARMACY

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, requirements as to residence, classification of students, examinations, and grades, as set forth in the General Information section (Part II) of this Catalogue.

The degree of Bachelor of Science in Pharmacy (B. S. Phar.) is conferred upon any student who complies with the general regulations of the University concerning degrees, satisfies all entrance and college requirements, and completes the basic two-year course below, together with one of the following curricula providing for specialized training during the third and fourth years:

A. Retail Pharmacy (142 hours)
B. Industrial Pharmacy (144 hours)

The curriculum for the first two years is the same for all students. At the beginning of the third year the student is expected to select a field of specialization and pursue for the remaining two years the courses outlined in that group.

A student who desires to substitute another course in place of any course prescribed in his curriculum must obtain permission for such substitution from the director.

BASIC COURSES REQUIRED OF ALL STUDENTS[1]

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Botany 1 or Zoology 1 (4); Pharmacy 1 (2); Pharmacy 2 (3); Chemistry 3 (4); physical education (1); military science (1). Total, 18 hrs.

[1]Upon entering, those who plan to follow the Pharmacy-Medical Course should elect zoology instead of botany during the first year.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Botany 2 or Zoology 2 (4); Pharmacy 3 (2); 10 (3); Chemistry 4 (4); physical education (1); military science (1). Total, 18 hrs.

SECOND YEAR, FIRST SEMESTER: French 1 or German 1 (3); Pharmacy 9 (2); 4 (2); 11 (3); 5 (2); Chemistry 5 (4); military science (1). Total, 17 hrs.

SECOND YEAR, SECOND SEMESTER: French 2 or German 2 (3); Pharmacy 6 (4); 12 (3); 8 (1); 7 (2); Chemistry 6 (4); military science 1. Total, 18 hrs.

A. RETAIL PHARMACY

THIRD YEAR: Physics 1, 2, 3, and 4 (8); Economics 103 (3); 110 (2); Pharmacy 103 (2); 106 (2); 101 (1); 102 (1); 107 (2); 114 (2); 122 (1); Chemistry 233 (5); 238 (4); Physiology 101 (4). Total, 37 hrs.

FOURTH YEAR: Pharmacy 108 (3); 201 (3); 109 (1); 110 (3); 113 (4); 118 (1); 202 (2); 126 (3); Bacteriology 105 (5); Biochemistry 139 (4); elective (5). Total, 34 hrs.

B. INDUSTRIAL PHARMACY

THIRD YEAR: Physics 1, 2, 3, and 4 (8); Pharmacy 103 (2); 106 (2); 107 (2); Chemistry 233 (5); 163 (3); 238 (4); Physiology 101 (4); Chem. Engineering 201 (3); elective (4). Total, 37 hrs.

FOURTH YEAR: Pharmacy 105 (3); 108 (3); 201 (3); 109 (1); 104 (2); 110 (3); 113 (4); 118 (1); 202 (2); Chemistry 251 (3); 277 (2); Bacteriology 105 (5); Chem. Engineering 202 (2); Biochemistry 139 (4). Total, 36 hrs.

COMBINED SCIENCE, PHARMACY, AND MEDICAL COURSE

Leading to the Degree of Bachelor of Science in the College of Arts and Sciences and School of Medicine

The Bachelor of Science degree in the College of Arts and Sciences and the School of Medicine is conferred upon any student who complies with the general regulations of the University concerning degrees, satisfies all entrance, college, and departmental requirements, and completes the basic two-year course outlined on page 231, and the three-year curriculum outlined below, including two years in the School of Medicine, a total of 185 hours.

THIRD YEAR: Physics 1, 2, 3, and 4 (8); Zoology 231 (4); Psychology 1 (3); Pharmacy 106 (2); 107 (2); Chemistry 163 (3); 36 (6); German 121 (3); 122 (3); elective (3).

FOURTH AND FIFTH YEAR IN THE SCHOOL OF MEDICINE, as given on pages 217 and 218.

SUGGESTED ELECTIVE COURSES

NOTE: All electives must be approved by the director before election.

Plant Physiology (4); Marketing Methods (3); Business Management (3); Business Law (3); Synthetic Inorganic Chemistry (3); Organic Qualitative Analysis (3); Industrial Inorganic Chemistry (3); Physical Chemistry (3); Stereochemistry (2); Assigned Chemical Topics (1 to 10); Synthetic Drugs (2); Advanced Organic Chemistry (3); Business Organization (3); Money, Credit and Banking (3); French 1, 2, 5, and 6 and German 1, 2, 3, and 4 (3 each when not offered for entrance credit); Mineralogy (4); Scientific German (3); College Algebra (4); Plane Trigonometry (2); Minerals and Rocks (4); Microscopy (2 or 3); Pharmaceutical Investigations (2 to 6); Dispensing (1 to 4); Problems in General Physics (2); Sociology (3); General Zoology (4); Retail Store Management (3); Sales Management (3); Colloidal Chemistry (4); History of Chemistry (2); Food Analysis (3); Blow-Pipe Analysis and Assaying (2); Benzene Derivatives (2 or 3); Water Examination and Purification (2); Business Finance (3); Newspaper Advertising (3); Comparative Anatomy (4); Photography (2); Vertebrate Zoology (4); Introduction to Psychology (3); Applied Psychology (3); Experimental Psychology (3).

COURSES OF INSTRUCTION

(For explanation of abbreviations see page 87.)

Professors HAYMAN and BERGY and Instructor GEILER

1. **Theoretical Pharmacy.** I. 2 Hrs. Descriptive and experimental lectures and recitations, embracing a study of the apparatus and technique necessary for the correct procedure in the manufacture of pharmaceutical preparations (36 hours). Lectures and recitations. Mr. Geiler

2. **Pharmaceutical Arithmetic and Stoichiometry.** I. 3 Hrs. Lectures and recitations (54 hours). Mr. Geiler

3. **Advanced Pharmaceutical Arithmetic.** II. 2 Hrs. Continuation of Pharmacy 2. Lectures and recitations (36 hours). Mr. Geiler

4. **Operative Pharmacy Lectures.** I. 2 Hrs. A systematic consideration of the various official preparations for which the Pharmacopœia and National Formulary give formulas and processes. Lectures and recitations (100 hours). Mr. Geiler

5. **Operative Pharmacy Laboratory.** I. 2 Hrs. This course is carried in conjunction with Pharmacy 4. The representative classes of preparations of the Pharmacopœia and National Formulary are manufactured (154 hours). Mr. Geiler

6. **The Art of Compounding.** II. 4 Hrs. The more difficult pharmaceuticals and miscellaneous preparations are considered in connection with the modern methods of compounding. The latter part of the course is devoted to intensive study of the methods of preparation and standardization of biologicals. Lectures and recitations (72 hours). Mr. Bergy

7. **Art of Compounding Laboratory.** II. 2 Hrs. A laboratory course in conjunction with Pharmacy 6. Laboratory (100 hours). Prereq.: Pharmacy 4 and 5. Mr. Bergy

8. **Pharmaceutical Jurisprudence.** II. 1 Hr. An intensive study of the Harrison Narcotic Law, the West Virginia Pharmacy Law, and other state and national laws pertaining to pharmacy. Lectures and recitations (18 hours). Mr. Hayman

9. **Pharmaceutical Latin.** I. 2 Hrs. Pronunciation, declension, English and Latin translations, comparisons, abbreviations, and vocabularies of medicine and pharmacy. Lectures and recitations (36 hours). Mr. Hayman

10. **Vegetable Histology.** II. 3 Hrs. The microscopical characteristics of starches, powdered vegetable drugs, and their adulterants. Lectures and recitations (18 hours), laboratory (100 hours). Mr. Hayman

11. **Pharmacognosy.** I. 3 Hrs. An intensive study of vegetable and animal drugs, their collection, preparation, constituents, and applicability. Lectures and recitations (54 hours). Mr. Hayman

12. **Pharmacognosy.** II. 3 Hrs. A continuation of Pharmacy 11. Lectures and recitations (54 hours). Mr. Hayman

101. **Commercial Design.** I. 1 Hr. Practical water-color lettering emphasizing arrangement and color harmony, for show cards and store windows. Laboratory (50 hours). Mr. Hayman

102. **Accounting.** I. 1 Hr. Laboratory (50 hours). Mr. Hayman

103. **Hygiene.** I. 2 Hrs. Lectures and recitations (36 hours). Mr. Bergy

104. **Qualitative of the Alkaloids and Synthetics.** I. 2 Hrs. Laboratory (100 hours). Mr. Hayman

106. **Pharmaceutical Chemistry.** I. 2 Hrs. Deals specifically with inorganic chemistry as applied to pharmacy. Lectures and recitations (36 hours). Mr. Bergy

107. **Pharmaceutical Chemistry.** II. 2 Hrs. A continuation of Pharmacy 106. Special attention to the chemistry and adaptability of germicides, fungicides, parasites, rodenticides, etc. (36 hours). Mr. Bergy

108. **Prescriptions and Incompatibilities.** I. 3 Hrs. The prescription is studied relative to the interpretation of the chemical, pharmaceutical, and therapeutical incompatibilities, posology, art of dispensing, and Latin nomenclature. Lectures and recitations (54 hours). Mr. Hayman

109. **Prescription Practice.** I. 1 Hr. A laboratory course accompanying Pharmacy 108. Laboratory (50 hours). Mr. Hayman

110. **Assay and Pharmaceutical Testing.** II. 3 Hrs. A critical study of U. S. P. & N. F. methods of assay. Lecture (18 hours), laboratory (100 hours). Mr. Geiler

113. **U. S. P. and N. F.** II. 4 Hrs. A comprehensive study of the United States Pharmacopœia and the National Formulary, including review on related subjects. Recitations (72 hours). Mr. Hayman

114. **Commercial Pharmacy.** II. 2 Hrs. The establishment, management, and development of a modern pharmacy, with special emphasis on business economics, accounting, correspondence, salesmanship, and advertising. Lectures and recitations (36 hours). Mr. Geiler

115. **Advanced Microscopy.** I or II. 2 to 3 Hrs. A laboratory course concerned with the microscopy of vegetable foods and technical products, microchemical recitations of inorganic chemicals, quantitative microscopic methods, and micrometry. Permission of instructor must be secured before electing. Laboratory (100 to 150 hours). Mr. Hayman

116. **Pharmaceutical Investigation.** I or II. 2 or 3 Hrs. Original investigation in pharmacy or pharmaceutical chemistry. Laboratory and collateral reading (100 to 150 hours). Mr. Hayman and Staff

117. **Dispensing.** I or II. 1 or 2 Hrs. A practical course in University Pharmacy under the supervision of a registered pharmacist in compounding, pricing, and filing prescriptions. Laboratory (50 to 100 hours). Mr. Hayman and Staff

118. **New and Non-Official Remedies.** II. 1 Hr. A critical study of the most recent pharmaceutical introductions as approved by the Council of Pharmacy of The American Medical Association. Lectures and recitations (18 hours). Mr. Bergy

120. **Cosmetics.** I. 1 or 2 Hrs. A laboratory course devoted to compounding a large number of preparations of this type, including perfumes (54 or 108 hours). Mr. Bergy

121. **Household Products.** I, II. 1 or 2 Hrs. Laboratory (108 Hours). Alternates with Pharm. 120. Mr. Bergy

122. **Inorganic Preparations.** I. 1 Hr. Laboratory (54 hours). Mr. Geiler

201. **Pharmacology.** I. 3 Hrs. A general survey of the pharmacological, antidotal, and therapeutic action of the more potent drugs which the pharmacist is called upon to dispense. Lectures and recitations (54 hours). Mr. Bergy

202. **Pharmacology.** II. 2 Hrs. A continuation of Pharmacy 201. Lectures and recitations (36 hours). Mr. Bergy

205. **History of Pharmacy.** I or II. 1 Hr. Mr. Bergy

THE DIVISION OF PHYSICAL EDUCATION

For purposes of administration and instruction the Division of Physical Education is organized into the following departments: (1) service program for men, (2) service program for women, (3) intramural athletics, and (4) curriculum for majors.

The Division of Physical Education was organized for the purpose (1) of providing for the entire student body a regular program of wholesome physical activity; and (2) (a) of preparing individuals to teach health and physical education in the high schools of the state, (b) of preparing individuals to supervise, teach, and direct health and physical education in institutions of higher learning, and (c) of preparing individuals to direct community recreation.

The descriptive material on the pages which follow outlines the curricular requirements for the four-year curriculum for majors leading to the degree of Bachelor of Science in Physical Education. A more comprehensive statement of the organization and purposes of the Division of Physical Education, including the service programs for both men and women, and intramural athletics, appears on pages 45 to 47 and 71 to 73.

The attention of students is directed to the general requirements of the University concerning entrance, admission with advanced standing, requirements as to residence, classification of students, examinations, grades, and honor points, as set forth in the General Information section (Part II) of this Catalogue.

REQUIREMENTS FOR THE DEGREE

The degree of Bachelor of Science in Physical Education may be conferred upon any student who satisfies the entrance requirements and offers 128 hours[1] with grades of D or above, and an average grade of C.

REQUIRED AND ELECTIVE COURSES

Of the 128 hours which are required for the degree of Bachelor of Science in Physical Education, at least 37 hours are required in the Division of Physical Education. The remaining hours must be selected from such courses as may be approved by the adviser. A candidate for a degree is expected to make a selection of one of the teaching combinations on page 239, and to complete the number of semester hours required in each teaching group.

The courses are arranged to meet the University requirements for the degree of Bachelor of Science in Physical Education as well as the State requirements for certification. The curriculum for the four-year course has been so arranged that consideration is given to the various activities which should constitute a well-rounded program of physical education for boys and girls of high-school age. These courses are arranged in eight groups as follows:

[1]Students may decrease the number of hours required for graduation by doing work of superior quality. For details of the honor-point system see page 62.

A. Required courses in physical education, which include the theory and practice of physical education courses for men and women, are Physical Education 1, 2, 11, 12, 13, 14, 43, 44, 45, 46, 111, 112, 113, 114, 143, 144 for men, and Physical Education 27, 28, 59, 60, 127, 128, 159 and 160 for women. These courses are known as the physical education block.

B. Required courses in physical education which include courses in theory and listed as Physical Education 76, 77, 78, 150, 166, 167, 175, 276, and 277.

C. Required courses in English and public speaking.

D. Required courses in science which furnish a background for physical education.

E. Required courses in education which consider the principles of general education.

F. Required courses in social studies.

G. Required courses in military science for men of the University.

H. Elective courses which are taken at the pleasure of the student.

It is understood that a sound and vigorous body is essential to all students who elect this curriculum. Each student must, therefore, pass a thorough physical examination before he will be allowed to enroll in this program. Special emphasis is placed upon the personal and professional qualifications of the student as well as upon a high standard of scholarship.

Student teaching of high-school classes in physical education, as well as practice coaching of high-school athletic teams is available in the University Demonstration High School. Student assistance in college classes in physical education is provided in connection with the service programs for both men and women.

FOUR-YEAR CURRICULUM IN PHYSICAL EDUCATION

(Leading to the Degree of Bachelor of Science in Physical Education)

GENERAL MINIMUM REQUIREMENTS:

Physical education for men (32 hrs.); for women (32); English and public speaking (12); social studies (15); science—anatomy, biology, chemistry, physiology (20); education (20); public-school health (5); military science (men) (4); home economics (women) (3); electives (women) (23); electives (men) (22).

FOR MEN

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Chemistry 1[1] (4); Physical Education 1 (1); 11 (1); and 12 (1); military science (1); history (3); Public Speaking 11 (3). Total, 17 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Chemistry 2[1] (4); Physical Education 2 (1); 13 (1); 14 (1); and 76 (2); military science (1); history (3). Total, 16 hrs.

[1]It is desirable that the above science course be taken in the sequence indicated.

SECOND YEAR, FIRST SEMESTER: English 3, 4, or 65 (3); Biology 1[1] (4); Physical Education 43 (1); 44 (1); and 77 (2); military science (1); elective (3). Total, 15 hrs.

SECOND YEAR, SECOND SEMESTER: Anatomy 1[1] (4); Physical Education 45 (1); 46 (1); and 78 (3); military science (1); elective (6). Total, 16 hrs.

THIRD YEAR, FIRST SEMESTER: Education 106[2] (3) and 109[2] (3); Physical Education 111 (1); 112 (1); and 175[1] (3); Sociology 101 (3); elective (2). Total, 16 hrs.

THIRD YEAR, SECOND SEMESTER: Education 112[2] (2) and 214[2] (2); Physical Education 113 (1); 114 (1); and 150 (3); Physiology 51[1] (4); economics (3). Total, 16 hrs.

FOURTH YEAR, FIRST SEMESTER: Education 120[2] (3); 152 (2); and 224 (3); Physical Education 143 (2); and 276 (3); elective (3). Total, 16 hrs.

FOURTH YEAR, SECOND SEMESTER: Education 150-170[2] (2); Physical Education 144 (3); and 277 (2); political science (3); elective (6). Total, 16 hrs.

FOR WOMEN

NOTE: Credit hours are shown in parentheses after course designations.

FIRST YEAR, FIRST SEMESTER: English 1 (3); Chemistry 1[1] (4); Physical Education 27 (2); history (3); Public Speaking 11 (3). Total, 15 hrs.

FIRST YEAR, SECOND SEMESTER: English 2 (3); Chemistry 2[1] (4); Physical Education 28 (2) and 76 (2); history (3); elective (3). Total, 17 hrs.

SECOND YEAR, FIRST SEMESTER: English 3, 4, or 65 (3); Biology 1[1] (4); Physical Education 59 (2) and 77 (2); elective (6). Total, 17 hrs.

SECOND YEAR, SECOND SEMESTER: Anatomy 1[1] (4); Home Economics 14 (3); Physical Education 60 (2) and 78 (3); elective (3). Total, 15 hrs.

THIRD YEAR, FIRST SEMESTER: Education 106[2] (3) and 109[2] (3); Physical Education 127 (2); 167 (2); and 175[1] (3); Sociology 101 (3). Total, 16 hrs.

THIRD YEAR, SECOND SEMESTER: Education 112[2] (2) and 214[2] (2); Physical Education 128 (2) and 166 (3); Physiology 51[1] (4); economics (3). Total, 16 hrs.

FOURTH YEAR, FIRST SEMESTER: Education 120[2] (3); 152 (2); and 224 (3); Physical Education 159 (2) and 276 (3); elective. (3). Total, 16 hrs.

[1]It is desirable that the above science courses be taken in the sequence indicated.
[2]It is desirable that the above courses in education be taken in the sequence indicated.

FOURTH YEAR, SECOND SEMESTER: Education 150-170[2] (2); Physical Education 160 (2) and 277 (3); political science (3); elective (6). Total, 16 hrs.

CERTIFICATION REQUIREMENTS

For a statement of the conditions governing the preparation of high school teachers and their recommendation to the State Board for certification, see page 159.

GENERAL PHYSICAL EDUCATION REQUIREMENTS FOR CERTIFICATION

All students who plan to be certificated to teach must meet the State requirement of a minimum of six (6) hours of Health and Physical Education. The specific courses offered to meet this requirement are as follows[1]: FOR MEN: Physical Education 1* (1); 2* (1); 178 (2); 180 (2); 276 (2-3). Total, 6 hrs. FOR WOMEN: Physical Education 1* (1); 2* (1); 3* (1); 4* (1); 180 (2). Total, 6 hrs.

SUGGESTED TEACHING COMBINATIONS FOR FIRST-CLASS HIGH-SCHOOL CERTIFICATES

1. Physical education and biology.
2. Physical education and mathematics.
3. Physical education and social science.
4. Physical education and English.

CURRICULUM FOR MAJORS

(First or Second Teaching Subject)

REQUIRED COURSES FOR MEN: Physical Education 1, 2, 11, 12. 13, 14, 43, 44, 45, 46, 111, 112, 113, 114, 143, and 144—Theory and Practice of Physical Education for freshmen, sophomores, juniors, and seniors (18 hrs.); Individual Gymnastics 150 (3). Total, 21 hrs.

REQUIRED COURSES FOR WOMEN: Physical Education 27, 28, 59, 60, 127, 128, 159, and 160—Theory and Practice of Physical Education for freshmen, sophomores, juniors, and seniors (16 hrs.); Individual Gymnastics 166 (3); Rhythmic Form and Analysis 167 (2). Total 21 hrs.

REQUIRED COURSES FOR MEN AND WOMEN: Hygiene 76 (2); History of Physical Education 77 (2); Playground and Community Recreation 78 (3); Kinesiology 175 (3); Advanced Public-School Health 276 (3); Administration of Physical Education 277 (3). Total, 16 hrs.

*This requirement should be met by the men in their first-year of residence and by the women in their first two years of residence.

[1]Physical Education 178 and 180 or 276 are open only to juniors and seniors.

[2]It is desirable that the above courses in education be taken in the sequence indicated.

CURRICULUM FOR MAJORS

Professors SCHOTT and MORRIS; Associate Professors GRIFFIN, JONES, and SAMUEL; Assistant Professors TALLMAN, HURST, RODGERS, and SMITH, and Instructors THOMAS, DUNCAN, and GLENN

THEORY AND PRACTICE OF PHYSICAL EDUCATION FOR MEN

All courses indicated in the block of theory and practice of physical education for men are offered on Monday, Wednesday, and Friday, and on Tuesday, Thursday, and Saturday from 8:00 to 10:00 a. m.

Physical Education 1, 2, 11, 12, 13, and 14 are required of freshmen men; Physical Education 43, 44, 45, and 46 are required of sophomore men; Physical Education 111, 112, 113, and 114 are required of junior men; and Physical Education 143 and 144 are required of senior men.

Lower Division

(For explanation of abbreviations see page 87.)

11. **Football.** I. 1 Hr. Theory and practice in the fundamentals of football. Mr. Rodgers

12. **High-School Activities.** I. 1 Hr. Theory and practice in an activity program suitable for junior and senior high-school boys. Mr. Samuel

13. **Marching, Games, and Relays.** II. 1 Hr. Theory and practice in an activity program suitable for junior and senior high-school boys. A continuation of course 12, which is prerequisite. Mr. Samuel

14. **Baseball.** II. 1 Hr. Theory and practice in the fundamentals of baseball. Mr. Rodgers

43. **Scoutmastership.** I. 1 Hr. The aims of the Boy Scout movement, its plan of organization, and the curriculum. The Camping movement is also considered. Mr. Samuel

44. **Basketball.** I. 1 Hr. Theory and practice in the fundamentals of basketball. Mr. Glenn

45. **Apparatus and Tumbling.** II. 1 Hr. Natural activities in tumbling and the fundamentals of work on the apparatus. Mr. Schott

46. **Track and Field Athletics.** II. 1 Hr. Theory and practice in the fundamentals of track and field athletics. Mr. Smith

Upper Division

111. **Athletic Conditioning and Training.** I. 1 Hr. Lectures, demonstrations, and practice work in the training and conditioning of athletes. Mr. Smith

112. **First Aid.** I. 1 Hr. Study of the standard and advanced first-aid requirements, and the work given for the Teacher's Certificate in first aid as set up by the American Red Cross. Mr. Smith

113. **Wrestling and Boxing.** II. 1 Hr. Theory and practice in the fundamentals of wrestling and boxing. Staff

114. **Minor Sports.** II. 1 Hr. Theory and practice in the fundamentals of golf, badminton, handball, volleyball, tennis. Staff

143. **Theory of Coaching Football, Basketball, and Officiating.** I. 2 Hrs. The theory of coaching football, basketball, and the conduct of programs in physical education in the public schools, together with the theory and technique of officiating in these activities. Staff

144. **Theory of Coaching Track, Baseball, and Officiating.** II. 2 Hrs. The theory of coaching track and field, baseball, and the conduct of programs in physical education in the public schools, together with the theory and technique of officiating in these activities. Staff

THEORY AND PRACTICE OF PHYSICAL EDUCATION FOR WOMEN

All courses indicated in the block of theory and practice of physical education for women are offered on Monday, Wednesday, and Friday from 8:00 to 10:00, and on Tuesday and Thursday from 8:00 to 9:00, or from 9:00 to 10:00, in Elizabeth Moore Hall.

Lower Division

27. **Athletics, Rhythm, and Swimming.** I. 2 Hrs. Fundamentals and practice in playing soccer, field ball, speedball, and basketball; instruction in singing games and folk dances; elementary and advanced swimming strokes; standard dives and life saving. Staff

28. **Athletics, Rhythm, and Swimming.** II. 2 Hrs. Continuation of basketball and swimming with the addition of clogging, the theory and practice of archery, and minor athletic games suitable for intramural competition. Staff

59. **Athletics, Gymnastics, and Rhythm.** I. 2 Hrs. Fundamentals of hockey, basketball technique; activities in all forms of gymnastics; and skill in natural dancing, with some historical and philosophical background. Staff

60. **Athletics, Gymnastics, and Rhythm.** II. 2 Hrs. A continuation of the work in basketball, natural dancing, and gymnastics, with the addition of the fundamentals of indoor and outdoor baseball, development of skill in playing, and the theory of coaching the game. Staff

Upper Division

127. **First Aid, Leadership of Adolescents, and Skill Techniques.** I. 2 Hrs. Archery teaching; swimming technique, which covers the theory and practice of teaching swimming, a thorough study and analysis of the standard dives, and sanitation of the swimming pool; tumbling, stunts, including stunts suitable for various age groups, pyramid building, and advanced tumbling; organizations of adolescent girls, such as Girl Scouts, Camp Fire Girls, and Girl Reserves. Staff

128. **Graded Games, Track and Field, Tennis, and Skill Techniques.** II. 2 Hrs. Practice in teaching swimming; track and field activities adapted to the use of women; skill in playing tennis and a knowledge of the rules; and games of low organization for elementary, junior and senior high schools, summer playgrounds and camps. Staff

159. **Assisting and Officiating.** I. 2 Hrs. The teaching of soccer, speedball, hockey, basketball, gymnastics, individual gymnastics. Staff

160. **Philosophy of Athletics, Assisting and Officiating.** II. 2 Hrs. Philosophy of athletics, which includes a study of the fundamental principles relating to highly-organized team games, and a continuation of basketball teaching with the addition of teaching of folk dancing, baseball, and track and field. Staff

Note: An opportunity is provided for individual specialization in sports, swimming, or dancing, in addition to the activity of the block program. If students are especially interested in specialization in dancing, their course will include some allied subjects such as history of art, pageantry, dramatics.

THEORY COURSES IN PHYSICAL EDUCATION

Lower Division

FOR MEN AND WOMEN

71. **Camping and Hiking.** I. 2 Hrs. A course in training camp counselors. The essentials embraced are: history of organized camps, aims and objectives, leadership in camp work, program building, administration of the camp, camp sites and equipment, activities, records, finance and business management, and requirements and qualifications. Mr. Smith

76. **Hygiene.** II. 2 Hrs. Those phases of hygienic living which should be understood by all college students. Special emphasis placed on the personal aspects of hygiene. Open only to freshman students majoring in physical education and may not be elected as a substitute for P. E. 276 (Health Education). Mr. Samuel

77. **History of Physical Education.** I. 2 Hrs. The development of physical education from early civilization to the present time, giving attention to the early Roman and Greek periods, the German, Swedish, and Danish systems, and the recent development in the American program. Miss Griffin

78. **Playground and Community Recreation.** II. 3 Hrs. Arranged to prepare the student in physical education for the direction of municipal departments of playgrounds and community recreation. It will include a study of the nature and function of play in the life of the child. Mr. Jones

Upper Division

FOR MEN

150. **Individual Gymnastics.** II. 3 Hrs. The diagnosis of abnormal cases found in the classroom including overweight, underweight, postoperative, postural, and flat-foot cases, with the prescription of activities for their correction. The course will cover the program of tests and measurements as employed in the school program. Prereq.: anatomy, physiology, kinesiology. Mr. Jones

FOR WOMEN

166. **Individual Gymnastics.** II. 3 Hrs. Abnormal posture cases and other bodily defects that can be treated by physical activities and massage. Prereq.: anatomy, physiology, and kinesiology. Miss Thomas

167. **Rhythmic Form and Analysis.** I. 2 Hrs. Designed to give the student an understanding of the nature and scope of rhythm in the physical educational program. An opportunity will be had for practice in the analysis of rhythm in the music used in dancing, folk dancing, and singing games. Practice in the creation of rhythmic step patterns will be offered. Miss Duncan

FOR MEN AND WOMEN

175. **Kinesiology.** I. 3 Hrs. The principles of the mechanics of bodily movements in relation to the anatomical structure. Miss Thomas

178. **Advanced Physical Education.** I. 2 Hrs. An orientation course designed for students who expect to teach in the public schools of the State and desire to meet general requirements for state teachers' certificates. Mr. Schott

180. **Public-School Health.** I, II. 2 Hrs. This course in hygiene meets the general requirements for state teachers' certificates. Dr. Morris

276. **Advanced Public School Health.** I. 3 Hrs. Preventive medicine and hygiene with particular emphasis on recent advances. Dr. Morris

277. **Administration of Physical Education.** II. 3 Hrs. The modern theories in physical education; guiding principles in the organization and administration of physical education; and the objects, content, and materials of activities in the gymnasium and on the playground. Mr. Schott

GRADUATE CURRICULUM IN PHYSICAL EDUCATION

(Leading to the Degree of Master of Science)

Candidacy: The candidate must hold the degree of Bachelor of Science in Physical Education or its equivalent from an approved college. The equivalent will be determined by the committee on graduate courses of the Division of Physical Education. Additional hours may be required of students who have had inadequate undergraduate preparation.

Course Requirements: No less than 30 hours (including a problem or thesis) of graduate work, approved by the Graduate Council, the advisers, and the committee on graduate courses of the Division of Physical Education, must be taken in West Virginia University. At least 12 hours (exclusive of the problem or thesis) shall be in physical education and the remaining hours may be in related subjects or other fields. One-third of the hours required for the degree must be in courses numbered above 300.

NOTE: Courses marked by an asterisk (*) are required of all candidates for the Master of Science degree.

224. **Physiological Analysis of Activities.** II and SI. 2 Hrs. Research in the analysis of the physiological effects of different physical education activities on different individuals. Mr. Schott

276. **Advanced Public-School Health.** I and SI. 3 Hrs. Preventive medicine and hygiene with particular emphasis on recent advances. Dr. Morris

277.* **Administration of Physical Education.** II and SI. 3 Hrs. The modern theories in physical education; guiding principles in the organization and administration of physical education; and the objects, content, and materials of activities in the gymnasium and on the playground. Mr. Schott

282. **Administration of Community Recreation.** I and SI. 2 Hrs. The modern concept of the community recreation program and its contribution to the leisure time problem. A special problem in organization or program will be undertaken. Mr. Jones

287. **History of Physical Education.** I and SI. 2 Hrs. The development of physical education from early civilization to the present time, giving attention to the early Roman and Greek periods, the German, Swedish and Danish systems, and recent developments in the American program. A special problem will be undertaken. Miss Griffin

290. **Adaptation and Evaluation of Activities in Physical Education.** I and SI. 2 Hrs. The formulation of criteria for the adaptation and evaluation of various physical activities to the individual in recognition of different needs, abilities, and interests. Staff

378.* **Problems in Health and Physical Education.** I, II, SI and SII. 2 Hrs. The solution of selected problems in health and physical education. Staff

389.* **Tests in Health and Physical Education.** II, SI, and SII. 2 Hrs. A study of anthropometric and functional tests in health and physical education. Mr. Jones

396-397-398-399.* **Seminar in Health and Physical Education.** I, II, and SI. No credit. All candidates for the master's degree with a major in physical education will be required to register in this course and to attend meetings. Staff

SERVICE PROGRAM FOR MEN[1]

(For explanation of abbreviations see page 87.)

Professor SCHOTT; Associate Professors JONES and SAMUEL; Assistant Professors RODGERS, SMITH, and TALLMAN; Instructor GLENN

1. **Service Program for Men.**[2] I. 1 Hr. Required of all freshman men in the University. Staff

2. **Service Program for Men.** II. 1 Hr. Continuation of course 1. Required of all freshman men in the University. Staff

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[1]Physical Education 1 and 2 will meet the University requirement of 2 hours' credit in physical education as a prerequisite for graduation from all schools and colleges. During registration week, all freshmen will report at the Men's Field House for assignment of lockers and baskets, and for appointments for physical examinations and physical achievement tests. These examinations and tests will be the guide in the selection of a program of physical education for the individual student. See Bulletin of the Department of Service Program for Men.

[2]Students who are found to be physically unable to engage in regular activity will be assigned to the restricted group for a restricted program of physical education recommended by the University physician and under the direction of the Staff of the department. Students who are on the freshman or Varsity athletic teams will be assigned to the athletics for credit group under the direction of the coach of the sport.

SERVICE PROGRAM FOR WOMEN[3]

Associate Professor GRIFFIN; Assistant Professor HURST;
Instructors THOMAS and DUNCAN

1. **Service Program for Women.** I. 1 Hr. Required of all freshman women.
   Fall season—swimming, volleyball, archery, games, dancing, badminton, tumbling.
   Winter season—clogging, folk dancing, games, swimming, basketball, tumbling. Staff

2. **Service Program for Women.** II. 1 Hr. Required of all freshman women.
   Winter season—swimming, folk dancing, games, basketball, tumbling.
   Spring season—playground baseball, archery, swimming, track and field activities, dancing, tumbling. Staff

3, 4. **Service Program for Women.** I and II. 1 Hr. per semester. Continuation of Physical Education 2. Required of all sophomore women. Staff

101, 102. **Service Program for Women.** I. and II. 1 Hr. per semester. Elective for junior women. Staff

103, 104. **Service Program for Women.** I and II. 1 Hr. per semester. Elective for senior women. Staff

[3]Physical Education 1, 2, 3, and 4 will meet the University requirement of 4 hours in physical education for women, to be taken during their freshman and sophomore years.

Part IV

DEGREES CONFERRED BY THE UNIVERSITY

DEGREES CONFERRED DURING 1935-36

The following is a list of degrees conferred by the University during the year 1935-36. Degress conferred September 1, 1935, are indicated by an asterisk (*); and those conferred February 1, 1936, by a double asterisk (**). All other degrees were conferred on Commencement Day, June 9, 1936.

DOCTOR OF PHILOSOPHY

IRA J. DUNCAN . . . . . AGRICULTURAL CHEMISTRY MORGANTOWN
B. S. Agr., University of Georgia, 1930
M. S., West Virginia University, 1933
Thesis: The Red Coloring Matter of the Winesap Apple.

PAUL NEWMAN MUSGRAVE . . ZOOLOGY . . . . . FAIRMONT
A. B., Salem College, 1917
A. M., West Virginia University, 1929
Thesis: Habitat Limitations of Certain Aquatic Insects and Their Possible Relation to a Study of Stream Pollution.

ROBERT R. ROBINSON . . . . AGRONOMY . . . . MORGANTOWN
B. S. Agr., West Virginia University, 1931
M. S., West Virginia University, 1933
Thesis: Soil Factors Determining the Botanical Composition of West Virginia Pastures and Soil Changes Induced by Fertilizer and Lime.

**GLENN SANFORD WATSON . . . CHEMISTRY . . . . MASONTOWN
B. S. (Eng'g. Elect.), West Virginia University, 1930
M. S., West Virginia University, 1931
Thesis: The Electrolytic Reduction of Unsaturated Aldehydes and Some Reactions of Ethylene and Propylene Oxide with Aldehydes and Ketones.

MASTER OF ARTS

*CHARLES WESLEY BLACKBURN . ENGLISH . . . . . KEYSER
A. B., West Virginia University, 1928

*ARTHUR DEWEY BRADFORD . . EDUCATION . . . . SETH
A. B., New River State College, 1931

*THOMAS W. BROHARD, JR. . . ENGLISH . . . . . GRAFTON
A. B., Davidson College, 1926

ALBERT NEWTON BURGESS . . EDUCATION . . . . KEYSER
B. S. Ed., West Virginia University, 1930

**JAMES JOSEPH CLARA . . . . EDUCATION . . . . RIVESVILLE
A. B., Fairmont State Teachers College, 1933

*SISTER MARY URSULA CLARK . EDUCATION . . . . WHEELING
A. B., Catholic University of America, 1930

*PRICE EVERETT CLARK . . . EDUCATION . . . . MILL CREEK
B. S. Agr., West Virginia University, 1925

*DANIEL ROY COFFMAN . . . EDUCATION . . . . LEWISBURG
A. B., Marshall College, 1929

*RACHEL AGNES COOGLE . . . FRENCH . . . . . MORGANTOWN
A. B., West Virginia University, 1920

**EDWARD CUBBON . . . . . EDUCATION . . . . MORGANTOWN
B. S., Phys. Ed., West Virginia University, 1932

BRAXTON DAVENPORT . . . . ENGLISH . . . . . CHARLESTON
B. S., University of Virginia, 1931

*M. AVERY DOTSON . . . . . EDUCATION . . . . PENNSBORO
A. B., Salem College, 1931

*VAUGHAN HOYT DUFFIELD . . EDUCATION . . . . BURNSVILLE
A. B., Broaddus College, 1927

*THEODORE M. FORMAN . . . EDUCATION . . . . MORGANTOWN
B. S., West Virginia University, 1926

CHARLES EUGENE GASKINS . . EDUCATION . . . . MORGANTOWN
B. S., Phys. Ed., West Virginia University, 1934

CECIL RAYMOND GATES . . . EDUCATION . . . . MORGANTOWN
A. B., West Virginia University, 1925

*SYLVESTER CARSON GROSE . . EDUCATION . . . . NITRO
A. B., West Virginia University, 1913

OWEN STEALEY HAMILTON . . SOCIOLOGY . . . . . MORGANTOWN
B. S. Agr., West Virginia University, 1933

ANNE KATHARINE HANEY . . ENGLISH . . . . . MORGANTOWN
B. S. Ed., West Virginia University, 1935

*SHERMAN HOOKE HASELDEN . . EDUCATION . . . . MOUNT CLARE
B. S., West Virginia Wesleyan College, 1925

*LYNN HASTINGS . . . . . EDUCATION . . . . MORGANTOWN
A. B., West Virginia University, 1931

LOUISE REINER HENNEN . . . EDUCATION . . . . MORGANTOWN
A. B., West Virginia University, 1911

MCKINLEY TENNYSON HILL . . EDUCATION . . . . WALLACE
B. S., Agr., West Virginia University, 1923

*VIOLET ROXEY HOUSEMAN . . ENGLISH . . . . . MORGANTOWN
A. B., West Virginia University, 1929

*HOMER STEWART JOHNSON . . EDUCATION . . . . FAIRVIEW
B. S., Waynesburg College, 1926

*JOHN L. KIPLINGER . . . . HISTORY . . . . . WEST LIBERTY
A. B., West Liberty State Teachers College, 1934

*DORA BRINCK KIRK . . . . EDUCATION . . . . KERMIT
B. S., Valparaiso University, 1913

*MARY LOUISE LANGFITT . . . EDUCATION . . . . PARKERSBURG
A. B., Wilson College, 1922

REGINALD LAWSON . . . . ENGLISH . . . . . WESTON
A. B., Glenville State Teachers College, 1933

*EDIS ELEANOR LAZEAR . . . ENGLISH . . . . . MANNINGTON
A. B., West Virginia University, 1924

*RICHARD LEMONS . . . . . EDUCATION . . . . SPRING HILL
A. B., Baylor University, 1931

*VIRGINA CLAIBORNE LEWIS . . POLITICAL SCIENCE . . DAVIS
A. B., Brenau College, 1929

*RICHARD LOPEZ . . . . . EDUCATION . . . . SHINNSTON
A. B., Fairmont State Teachers College, 1933

*ALFRED ROY MCBEE . . . . ECONOMICS . . . . FLEMINGTON
A. B., West Virginia University, 1927

**MATTIE SHIPLEY MCNEER . . EDUCATION . . . . ALDERSON
A. B., Morris Harvey College, 1929

*RUBY MCQUILLAN . . . . . FRENCH . . . . . FOLLANSBEE
A. B., West Virginia University, 1930

*SISTER MARY DELELLIS MANLEY EDUCATION . . . . WHEELING
A. B., Nazareth College, 1930

*OLEN E. MARKS . . . . . EDUCATION . . . . MIDDLEBOURNE
A. B., Salem College, 1927

*NEWTON G. MICHAEL . . . . EDUCATION . . . . FAIRVIEW
A. B., West Virginia Wesleyan College, 1927

**MYRTLE MAE MILLER . . . EDUCATION . . . . FAIRMONT
A. B., West Virginia University, 1926

*SISTER MARY LUCILLA MORIARTY EDUCATION . . . . WHEELING
A. B., Marywood College, 1929

*ERNEST GRANT NINE . . . . EDUCATION . . . . AURORA
A. B., Davis and Elkins College, 1925

*IRMA DILLON PARRY . . . . ENGLISH . . . . . MONTGOMERY
A. B., New River State College, 1930

BRUCE HARRIS REPPERT . . . EDUCATION . . . . NITRO
A. B., West Virginia Wesleyan College, 1926

JENNIE M. RIBLETT . . . . ENGLISH . . . . LUMBERPORT
A. B., Glenville State Teachers College, 1935

*EDWARD WRIGHT RICHARDSON . EDUCATION . . . . SWITCHBACK
A. B., Concord State Teachers College, 1929

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HERSCHEL HAMPTON ROSE, JR. A. B., West Virginia University, 1933	FAIRMONT
REUEL EDWIN SHERWOOD, II	CHARLESTON
*GEORGE EMERSON SMITH A. B., West Virginia University, 1933	CHARLESTON
HOUSTON ALEXANDER SMITH	HAMLIN
JAMES BOYD SMITH A. B., West Virginia University, 1934	WEST UNION
EDMUND CRISPEN STONE, JR.	BLUEFIELD
WILLIAM HENRY WALDRON, JR. A. B., Wesleyan University, 1932	HUNTINGTON
RALPH MILTON WHITE A. B., West Virginia University, 1933	WADESTOWN
THOMAS DALE WILSON B. S. in Bus. Adm., Ohio State University, 1932	HUNTINGTON
*CHESNEY YOUNG	CHARLESTON

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

HUGH F. BEEGHLY	BRANDONVILLE
JOSEPH THOMAS HASKINS CANNARELLA	WHEELING
*JAMES ROBERT CHARLES	SPENCER
WALTER WILSON COLE	MORGANTOWN
JOSEPH CRESCE	TAMROY
*LLOYD LOWNDES FRIEND, JR.	MORGANTOWN
*LOUIS HRUSOVSKY, JR.	BENWOOD

*HARRY C. KUTZ	NALLEN
EARL W. MAHANEY	CUMBERLAND, MD.
KENNETH CYRUS MARTIN	WHEELING
RONALD WILLIAM MORGAN	MOUNT PLEASANT, PA.
CLAYTON S. MYERS	RICHWOOD
ESTANISLAO M. OCOMA	MANGALDAN, P. I.
BERNARD ALLEN PRICE	HINTON
**WALLACE THOMPSON RIFE	KENOVA
JOHN W. ROSS	FAIRMONT
**JAMES L. SCHILANSKY	THOMAS
BRUCE WALDO SIDELL	NEW MARTINSVILLE
JAMES MILTON SMITH	MORGANTOWN
**S. PRESTON SMITH	WEST UNION
LYNWILL K. SPANGLER	MORGANTOWN
*CHARLES HAROLD STOCKDALE	MORGANTOWN
*ROBERT PRICE VELLINES	LOWELL
MARTIN LUTHER WACHTEL, Jr.	MARTINSBURG
WILLIAM HESS WACHTEL	MARTINSBURG
ROBERT A. WOOFTER	MORGANTOWN

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

**CHARLES R. BIBBEE	CLARKSBURG
HOWARD WINSTON CHAPMAN	SMITHBURG
**THEODORE DASTOLI	LOWELLVILLE, OHIO
**WRAY GORDON FARRELL	MORGANTOWN
C. PAGE FORTNEY, Jr	CHARLESTON
**EMORY IRELAND	CHEVY CHASE, MD.
JACKSON MARQUIS JARVIS	CLARKSBURG
NICHOLAS LESHKOW	OSAGE
*PAUL C. MCKLVEEN	DAVIS
HAROLD PORTER MORGAN	MORGANTOWN
**GEORGE FRED OURS	MOOREFIELD
PAUL CARROLL VICKERS	CHARLESTON
GEORGE R. WELLS	CAMERON

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

WILLIAM JASPER BLAKE	NELLIS
ARTHUR CARL FAGERLUND	MORGANTOWN
WILLIAM BAYARD FORMAN	LUMBERPORT
**WILLIS C. GARDNER	BLACKSVILLE
*ADOLF GRIMAL	THOMAS
RALPH RYLAND KELLEY	TERRA ALTA
JOHN WILLIAM MASON, III	FAIRMONT
DOMINECK F. OLIVERIO	NUTTER FORT
PAUL PETER PLOVANICH	LITTLETON
*DANIEL WAYNE RICHARDSON	MASONTOWN
STANLEY FRANK SETLAK	WEIRTON
*WILLIS GUY TETRICK, Jr.	CLARKSBURG
CHARLES FREDERICK WEBER	BERKELEY SPRINGS

BACHELOR OF SCIENCE IN INDUSTRIAL EDUCATION

*DERMOTT TEMPLETON HODGES	MORGANTOWN
HOWARD KNOX HOGAN	PARKERSBURG
FRANK BURT RAMSEY	CLARKSBURG
B. S. M. E., West Virginia University, 1929	

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

STEPHENS EARL AMOS	FOLSOM
JAMES ALBRIGHT DOWNS	MORGANTOWN
GEORGE LOGAN HUBBS	CHARLESTON
GUY L. LEONARD	CHARLESTON
BEAUFORD C. LIVELY	LONG BRANCH
**JOHN F. MILLAN	LITTLETON
HENRY C. SKAGGS, Jr.	MONTGOMREY
**JOHN SAINTO TASSAN	WHITMAN

BACHELOR OF SCIENCE IN AGRICULTURE

JAMES HARVEY ARBUCKLE	GLENVILLE
LESTER NEIL BOLYARD	INDEPENDENCE
*CHESTER WELLINGTON BOURNE	CHARLESTON
BERTIE LEON BROOKOVER	FAIRVIEW
EDWARD DALE CURRY	FAIRMONT
EUGENE JURRARDUS EDEBURN	BENBUSH
WILLIAM EMERSON FISHER	SISSONVILLE
RICHARD HUDDLESTON FLETCHER	ALDERSON
LOWELL EDWIN FOLSOM	REEDSVILLE
WILSON KEITH LANHAM	PENNSBORO
ROBERT WAGNER MCGLOTHLIN	WILLIAMSON
JAMES EDGELL MILLER	SPENCER
HERBERT EDWARD MILLIRON	WHEELING
DON OAKEY MOORE	FAIRVIEW
PAUL WATSON PERRINE	EXCHANGE
JAMES BENNETT PORTER, JR.	NEW CUMBERLAND
PETER PUGLIA	UNIONTOWN, PA.
BEN R. SHARPE	MORGANTOWN
TOWNSEND JACKSON SMITH	BENS RUN
*HARRY VIRGIL STILES	HUNDRED
WILBUR RILEY STURM	ENTERPRISE
WILLIAM CARL TEBAY	PARKERSBURG
TRUMAN BLAKE TOLLEY	LOST CREEK
ISRAEL JAMES WILLIAMS	WEST UNION
JAMES BENJAMIN WOODFORD	MORGANTOWN

BACHELOR OF SCIENCE IN HOME ECONOMICS

LENA DOROTHY CALVERT	MORGANTOWN
MARY LOUISE CAMPBELL	MORGANTOWN
MARY RUTH CHILDS	MORGANTOWN
MILDRED MARIE CHITTUM	MORGANTOWN
*MARY A. COLABRESE	ALBERT

HELEN EMILIE DAVIS	LOST CREEK
LUCIENNE DEMEESTER	CLARKSBURG
EMMA ELEANOR DOWNS	FARMINGTON
*THEODORA RHODA ERD	MORGANTOWN
MARTHA ELIZABETH FLANAGAN	CLARKSBURG
NEVA LUCILLE FREEMAN	MANNINGTON
MARY ETHEL C. FUNDERBURG	BURLINGTON
RUTH MAXSON GLASS	NEW CUMBERLAND
*LORETTA MAE GOLDSBORO	CLIFTON MILLS
*DOROTHY ELIZABETH GUNNEAU	CHARLESTON
EDNA SOPHIA HALL	HURST
FRANCES RUTH HAMILTON	RICHWOOD
*JESSIE IRENE HARBERT	LUMBERPORT
GRETCHEN JANE HARTMAN	SWISSVALE, PA.
MARY LEE HICKS	WEBSTER SPRINGS
*ELEANOR ELIZABETH HOARD	HOARD
ANN BAER HOTT	MORGANTOWN
BEULAH MAE HUEY	MANNINGTON
ELLA MAY JARRETT	MORGANTOWN
*MARY RUTH MCDONALD	GRANTSVILLE
NELLE P. MURPHY	LITTLETON
ADALINE LEETE PAISLEY	GASSAWAY
JANET CAROLYN REED	MORGANTOWN
GARNET CHRISTINA RENSTROM	MORGANTOWN
MILDRED ELLEN ROACH	MORGANTOWN
*FOREST STEWART	HUNTINGTON
MABEL MARGARET STONER	POINT MARION, PA.

BACHELOR OF SCIENCE IN EDUCATION

JANE BAER	HUNTINGTON
IRENE BARBERIO	MORGANTOWN
*FRED VANCE BEERBOWER	KINGWOOD
**MATTHEW DALE BONAR	MOUNDSVILLE
VIOLA REDITH CHANDLER	SOUTH CHARLESTON
LENA FURMAN CLARK	MORGANTOWN
*DELBERT HENRY CONWAY	MORGANTOWN
**ELEANOR JEAN DEBERRY	TERRA ALTA
*WILLIAM HOWARD TAFT DURR	BEREA
JOSEPH JOHN EVANGELISTA	BELLEVILLE, N. J.
BETTY LOU FARNSWORTH	FAIRMONT
*MILDRED SAVILLA FIKE	CLARKSBURG
HERMAN DONALD GALLIN	BROOKLYN, N. Y.
*ELEANOR ELIZABETH GATES	MORGANTOWN
**DOMENICK GAUDINO	RICHWOOD
*ETHEL FAITH HAMRICK	WEBSTER SPRINGS
*ANN KATHERINE HANEY	MORGANTOWN
*GWENDOLYN MAE HARDMAN	SPENCER
*MARY KATHRYN HARRINGTON	PRINCETON
**HELEN VIRGINIA HORNER	ROANOKE

BERNICE MILDRED IDLEMAN	ELK GARDEN
*SYLVIA RAMSEY JONES	EDMOND
WILLIAM MORRISON KARR, JR.	RIPLEY
EDWARD N. KERR	WHEELING
KATHRYN ELIZABETH KINGDON	BLUEFIELD
*BERNARD RONALD MCGREGOR	PARKERSBURG
SHIRLEY MORTON	SUMMERSVILLE
*ERMA NALE	MORGANTOWN
RUTH LORETTA REED	MORGANTOWN
*NATHAN CLY REGER	IRELAND
MILDRED REYNOLDS	TANNER
GEORGE DAVIS SHAWVER	RICHWOOD
**HELEN JUANITA SMITH	PADEN CITY
*JAMES M. SNYDER	MORGANTOWN
*NANCY AGNES TRENT	CHARLESTON
MARY ELIZABETH WILLIAMS	RUPERT
*RUTH MAXINE WOLVERTON	ELKINS

BACHELOR OF MUSIC IN PUBLIC SCHOOL MUSIC

*ERNEST CLYDE BECKETT	CLARKSBURG
REBECCA HOWLAND DAILEY	ROMNEY
MARY ELIZABETH DOUTHAT	MORGANTOWN
MARY MARGARET MARTIN	CLARKSBURG

BACHELOR OF MUSIC IN PIANO

RUBY IRENE GOLDSTEIN	MORGANTOWN
VIRGINIA LOURINE HOLDEN	CLARKSBURG

BACHELOR OF SCIENCE IN ENGINEERING OF MINES

**JOHN WADE BELL	QUINWOOD
*JOHN W. BORROR	MORGANTOWN
**HARON LEE BROWN	ANAWALT
*GEORGE W. DAVIS	KINGWOOD
RICHARD LOUIS MENTZER	HILLSIDE, N. J.
JOHN MASON SOWERS	MORGANTOWN
WILLIAM MACKALL WHEELER	CHARLES TOWN

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

*GEORGE ELLIOT ALLEN	ASHLAND, KY.
*EDWIN C. BAKER, JR.	SOUTH CHARLESTON
VIRGINIA CHRISTINA CROWELL	CHARLESTON
*GEORGE C. CUBBON	SHINNSTON
RUTH G. ERNEST	BELINGTON
ANGEL FELIX ESPADA	SAN JUAN, P. R.
MARIE JULIA GAYDOSH	WHEELING
**PAT HANDLEY	LEWISBURG
KATHERINE LUCINDA HARTWIG	BENWOOD

ANNA ELIZABETH HATFIELD	OAK HILL
CLARENCE RAY HESS	MORGANTOWN
EUGENE JOSEPH HESTER	PLYMOUTH, PA.
*RICHARD BLAIR HIBBERT	RONCEVERTE
LUCY FRANCES HOBLITZELL	PARKERSBURG
WILBUR JOLLIFFE HOSKINS	MORGANTOWN
NANNIE MARIE JARRETT	MORGANTOWN
JOSEPH FEIGHNER JOHNSTON	MORGANTOWN
HELENE ISADORE LANHAM	RAINELLE
THERESIA GRAYCE SCHULTZ	PARKERSBURG
*JAMES W. SCOTT	WILLIAMSTOWN
WILLIAM EDWIN SIMPSON	MORGANTOWN
*FRANK PHILLIP STERLE	UNIONTOWN, PA.
**HERBERT STEWART	WHEELING
WILLIARD O. WOLFE	TUNNELTON
JOSEPH F. ZALESTI	PATTERSON, N. J.

BACHELOR OF SCIENCE IN PHARMACY

EDWARD JAMES BYARD	WHEELING
JAMES RALPH CASTEEL	BAYARD
**MARVYN COHEN	CHARLESTON
*JOHN W. KOPKO	WEIRTON
JOHN WILLIAM MYERS	GLEN DALE
PAUL EDWARD ONEACRE	NEW MARTINSVILLE

PHARMACEUTICAL CHEMIST

*GEORGE WILSON ROBEY	SHINNSTON

DEGREES CONFERRED 1870-1936

BACHELOR'S DEGREES

YEAR	A. B.	B. S.	LL. B.	B. S. C. E.	B. S. M. E.	B. S. E. M.	B. S. E. E.	B. S. Ch. E.	B. S. Ind. Ed.	B. S. Agr.	A. B. in Law	Ph. B.	M. D.	D. V.	B. S. H. E.	Ph. C.	Ph. G.	B. Mus.	B. S. Ed.	B. S. Phys. Ed.	B. S. Phar.	Totals
1870	1																					1
1871	1	1																				2
1872	4																					4
1873	7	6																				13
1874	7																					7
1875	6	1																				7
1876	3	6																				9
1877	7	2																				9
1878	5	1																				6
1879	2	1	1																			4
1880	2	2	2																			6
1881	3																					3
1882	7	2	1																			10
1883	9	3	5																			17
1884	3	1	5																			9
1885	4	3	6																			13
1886	5	1	7																			13
1887	2	1	8																			11
1888	4		9																			13
1889	9	3	7																			19
1890	6	6																				12
1891	8	4	14																			26
1892	6	2	18	4																		30
1893	12	2	11	5																		30
1894	8	2	23	5						1												39
1895	10	4	24	3																		41
1896	8	3	35		1					1												48
1897	11	2	44	2	2						5											66
1898	9	5	18	6						1	5	1										45
1899	12	2	40	7	1					2		2										66
1900	46	1	9							1	1											58
1901	30		9	3						1	2											45
1902	25		17	8	2					2												54
1903	29	1	10	6	1					1												48
1904	28		8	2	2					2												42
1905	20	2	22	4	3					2												53
1906	18	1	17	9	6					1			3									55
1907	32	3	12	14	4					2			8									75
1908	20	4	8	6	6								7									51
1909	27	3	2	15	4					1			4									56
1910	27	6	12	7	5								1	2								60
1911	27	5	12	6	7	2				3			4	2								68
1912	27	12	17	9	9					4			6									84
1913	28	9	15	3	1		2			3												61
1914	28	13	12	4	1		5			12			1									76
1915	35	25	14	8	4	1	5			10												102
1916	40	8	9	2	4	1	6			10												80
1917	62	9	16	5	2	5				19					1		1				1	121
1918	40	8	5	4	4	1	4			17					2							85
1919	42	11	2		1	2	3			5					10							76
1920	79	22	16	11	2		5			14					17		1				2	169
1921	93	29	12	7	5	5	7	2	1	25					9		3				1	199
1922	56	48	17	7	5	7	6	3		18					17		10					194
1923	125	47	20	4	8	9	9	4		41					19		8					294
1924	130	43	18	9	8	2	18	7	1	25					25		11				1	298
1925	132	53	26	14	3	6	17	6		19					25		6					307
1926	169	58	26	19	5	11	9	4	1	22					19		5	1			2	351
1927	198	55	37	13	7	10	15	7		14					32		1	1			4	394
1928	211	48	35	7	3	7	17	4		15					28	5					3	383
1929	230	49	42	8	7	3	15	5		21					31	13		3	2			430
1930	264	42	42	7	2	3	24	9		22					22	10		10	23	1	1	482
1931	252	42	40	9	4	2	21	7	3	23					25	5		12	37	6	3	491
1932	209	54	42	11	7	5	17	6	3	24					39	4		14	25	17	2	479
1933	233	52	45	8	7	4	13	12	5	24					33	5		8	28	21	1	499
1934	216	48	32	5	5	4	16	10	5	18					31	3			19	26	1	439
1935	202	54	29	7	9		20	14	2	21					40				34	22	1	455
1936	214	43	44	13	8	7	13	26	3	25					32	1		6	37	25	6	503
Totals	3825	968	1035	306	165	97	267	127	24	472	13	3	34	4	457	46	46	55	205	118	29	8296

MASTER'S DEGREES

YEAR	A. M.	M. S.	LL. M.	M. S. Agr.	M. S. C. E.	M. S. M. E.	M. S. Ch. E.	M. S. E. M.	M. S. E. E.	Totals
1873	1									1
1874	2									2
1875	4									4
1876	7	5								12
1877	2									2
1878	12									12
1879	3	5								8
1880	7	2								9
1881	5									5
1882	2	1								3
1883	3	2								5
1884	3									3
1885	3									3
1886	9	3								12
1887	3	3								6
1888	5	4								9
1889	4									4
1890	1	1								2
1891	2									2
1892										
1893										
1894	1									1
1895										
1896	1									1
1897	1									1
1898			1							1
1899	3									3
1900	4									4
1901	3									3
1902	4	1								5
1903	4									4
1904	4		2							6
1905	2									2
1906	2									2
1907										
1908	1		2							3
1909	6									6
1910	2		1							3
1911	3									3
1912	1		1							2
1913	2		2							4
1914	1									1
1915	2	1	1							4
1916	5			1						6
1917	5									5
1918	1	2		1	1					5
1919										
1920	4	2								6
1921	5	2								7
1922	11	2								13
1923	13	1				1				15
1924	15	2		2			1			20
1925	14	3		3	2					22
1926	21	3		6			2			32
1927	27	1		5		1	1	1		36
1928	30	3		5			1	2		41
1929	36	5		3			1			45
1930	64	4		7				1		76
1931	39	29			1	1	2			72
1932	33	29			2			1	1	66
1933	46	19			3		2	1	2	73
1934	51	24					1			76
1935	62	23					4		2	91
1936	65	20			1		1			87
Totals	672	202	10	33	10	3	16	6	5	957

DOCTOR'S DEGREES

	Doctor of Philosophy
1902	1
1907	1
1932	6
1933	5
1934	3
1935	10
1936	4
TOTAL	30

HONORARY DEGREES

YEAR	Doctor of Philosophy	Doctor of Divinity	Doctor of Laws	Doctor of Literature	Doctor of Civil Laws	Civil Engineer	Mech. Engineer	Elect. Engineer	Chem. Engineer	TOTALS
1875	1									1
1883		2	1							3
1885			1							1
1886			3							3
1887		1								1
1888	1	1	2							4
1889	1	2	1			3				7
1890	2		1							3
1891	1	4	1							6
1892	1	2	1							4
1893			1							1
1894	3	3		1						7
1896	1	1	1							3
1897			1		1	1				3
1898						1				1
1909							1	2		3
1915						3				3
1918						1				1
1919			15		2					17
1920						1				1
1921			1				1			2
1924						1		1		2
1928			1				1			2
1929			3				1	1		4
1930										1
1932			2			1				3
1933			2			1	1			4
1934			1						1	2
1935										
1936										
TOTALS	11	16	39	1	3	13	5	4	1	93

CLASSIFIED ENROLLMENT, 1936-1937

In the Colleges, Schools, and Divisions

A. SUMMER SESSION, 1936

	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agriculture	8	19	27	8	15	23	3	6	9	2	1	3	21	41	62	16	16	32	37	57	94
Arts and Sciences	43	33	76	28	30	58	25	12	37	9	8	17	105	83	188	9	15	24	114	98	212
Education	23	20	43	4	18	22							27	38	65	3	4	7	30	42	72
Engineering	17		17	16		16	12		12	7		7	52		52				52		52
Graduate													319	195	514				319	195	514
Mines	1		1	2		2	1		1				4		4				4		4
Music		2	2		8	8	2	1	3				2	11	13	2	7	9	4	18	22
Pharmacy				3		3							3		3				3		3
Physical Education	4	4	8		3	3	1	2	3				5	9	14	2	1	3	7	10	17
Summer Session Special																26	82	108	26	82	108
Total	96	78	174	61	74	135	44	21	65	18	9	27	538	377	915	58	125	183	596	502	1,098

B. FIRST SEMESTER (SEPTEMBER TO JANUARY), 1936-1937

Agriculture	23	44	67	30	44	74	71	39	110	67	49	116	191	176	367	3	3	6	194	179	373
Arts and Sciences	119	84	203	197	86	283	225	89	314	213	106	319	754	365	1,119	12	16	28	766	381	1,147
Education	22	23	45	8	17	25							30	40	70	2	8	10	32	48	80
Engineering	58	1	59	64		64	94		94	147		147	363	1	364	1		1	364	1	365
Graduate													102	42	144				102	42	144
Law	29		29	36	4	40	60	1	61				125	5	130	1		1	126	5	131
Medicine	20		20	20	2	22							40	2	42				40	2	42
Mines	2		2	7		7	16		16	10		10	35		35				35		35
Music		8	8	3	9	12	5		5	10	4	14	18	21	39	1	3	4	19	24	43
Pharmacy	2		2	6	1	7	6	1	7	18	4	22	32	6	38				32	6	38
Physical Education	4	8	12	9	18	27	23	17	40	33	17	50	69	60	129				69	60	129
Total	279	168	447	380	181	561	500	147	647	498	180	678	1,759	718	2,477	20	30	50	1,779	748	2,527

C. SECOND SEMESTER (FEBRUARY TO JUNE), 1936-1937

	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agriculture	18	42	60	32	43	75	60	34	94	68	48	116	178	167	345	8	1	9	186	168	354
Arts and Sciences	111	75	186	190	87	277	207	79	286	213	103	316	721	344	1,065	9	17	26	730	361	1,091
Education	16	17	33	11	25	36							27	42	69	3	5	8	30	47	77
Engineering	46	1	47	60		60	90		90	120		120	316	1	317				316	1	317
Graduate													107	45	152				107	45	152
Law	30		30	32	4	36	57	1	58				119	5	124	3		3	122	5	127
Medicine	20		20	15	2	17							35	2	37				35	2	37
Mines	2		2	8		8	16		16	10		10	36		36				36		36
Music		7	7	4	9	13	8	1	9	10	5	15	22	22	44	1	6	7	23	28	51
Pharmacy	2	1	3	6		6	7	1	8	15	2	17	30	4	34				30	4	34
Physical Education	6	7	13	7	20	27	24	16	40	27	18	45	64	61	125	1		1	65	61	126
Total	251	150	401	365	190	555	469	132	601	463	176	639	1,655	693	2,348	25	29	54	1,680	722	2,402

D. ACADEMIC YEAR (SEPTEMBER TO JUNE), 1936-1937

Agriculture	25	45	70	31	47	78	72	39	111	76	52	128	204	183	387	6	3	9	210	186	396
Arts and Sciences	127	84	211	202	87	289	233	91	324	235	111	346	797	373	1,170	13	25	38	810	398	1,208
Education	22	23	45	10	18	28							32	41	73	5	10	15	37	51	88
Engineering	60	1	61	65		65	96		96	151		151	372	1	373	1		1	373	1	374
Graduate													123	56	179				123	56	179
Law	30		30	37	4	41	61	1	62				128	5	133	2		2	130	5	135
Medicine	20		20	20	2	22							40	2	42				40	2	42
Mines	2		2	7		7	16		16	13		13	38		38				38		38
Music		8	8	3	9	12	6		6	10	4	14	19	21	40	2	6	8	21	27	48
Pharmacy	2		2	6	1	7	7	1	8	18	4	22	33	6	39				33	6	39
Physical Education	5	8	13	9	18	27	24	17	41	37	17	54	75	60	135	1		1	76	60	136
Total	293	169	462	390	186	576	515	149	664	540	188	728	1,861	748	2,609	30	44	74	1,891	792	2,683

E. SUMMARY FOR 1936-1937

Agriculture	28	52	80	33	53	86	73	40	113	75	53	128	209	198	407	23	17	40	232	215	447
Arts and Sciences	149	96	245	204	96	300	234	93	327	234	113	347	821	398	1,219	18	36	54	839	434	1,273
Education	41	39	80	10	33	43							51	72	123	9	14	23	60	86	146
Engineering	65	1	66	73		73	101		101	148		148	387	1	388	1		1	388	1	389
Graduate													420	233	653				420	233	653
Law	30		30	38	4	42	62	1	63				130	5	135	2		2	132	5	137
Medicine	20		20	20	2	22							40	2	42				40	2	42
Mines	3		3	7		7	15		15	13		13	38		38				38		38
Music		9	9	3	15	18	6	1	7	10	4	14	19	29	48	4	10	14	23	39	62
Pharmacy	1		1	8	1	9	6	1	7	18	2	20	33	4	37				33	4	37
Physical Education	9	8	17	8	19	27	25	18	43	38	19	57	80	64	144	3	1	4	83	65	148
Summer Session Special																24	82	106	24	82	106
Total	346	205	551	404	223	627	522	154	676	536	191	727	2,228	1,006	3,234	84	160	244	2,312	1,166	3,478

SHORT COURSES AT MORGANTOWN:			
Coal Mining	30		30
Farm and Home Week	516	336	852
Fire School	141		141
Junior Farmers' Week	801		801
Junior Home Makers' Conference		78	78
Mining Electricity	11		11
Regional 4-H Livestock Judging Contest	100		100
State Vo-Ag Teachers Association	64		64
Welding School	41		41
Total Enrollment at Morgantown	4,016	1,580	5,596
Mining and Industrial Extension	2,537		2,537
Grand Total	6,553	1,580	8,133

GEOGRAPHICAL DISTRIBUTION OF ENROLLMENT

In the Colleges, Schools, and Divisions

BY STATES AND FOREIGN COUNTRIES

California	3	New Mexico	1
China	1	New York	33
Connecticut	4	Ohio	9
Cuba	1	Pennsylvania	113
Florida	1	Philippine Islands	5
Illinois	3	Puerto Rico	12
Indiana	2	Rhode Island	1
Iowa	1	Santo Domingo	1
Kentucky	1	Virginia	2
Maryland	10	West Virginia	3,260
Michigan	3		
New Jersey	11	TOTAL	3,478

BY WEST VIRGINIA COUNTIES

Barbour	29	Mineral	56
Berkeley	33	Mingo	36
Boone	15	Monongalia	751
Braxton	33	Monroe	14
Brooke	48	Morgan	16
Cabell	34	Nicholas	37
Calhoun	15	Ohio	148
Clay	13	Pendleton	16
Doddridge	19	Pleasants	18
Fayette	86	Pocahontas	22
Gilmer	15	Preston	101
Grant	13	Putnam	7
Greenbrier	58	Raleigh	49
Hampshire	26	Randolph	37
Hancock	57	Ritchie	40
Hardy	12	Roane	28
Harrison	244	Summers	27
Jackson	17	Taylor	58
Jefferson	24	Tucker	50
Kanawha	208	Tyler	28
Lewis	55	Upshur	18
Lincoln	9	Wayne	15
Logan	32	Webster	10
McDowell	44	Wetzel	70
Marion	224	Wirt	11
Marshall	72	Wood	72
Mason	19	Wyoming	14
Mercer	57		
		TOTAL	3,260

INDEX

A

Academy of Science, 85.
Abbreviations, 87.
Absences, 65, 66.
Absentia work, 64.
Administration, Council of, 8.
Administration, Officers of, 7-8.
Admission, 48.
Advanced standing, 53.
Adviser, 55, 64.
Advisers: agriculture, 89; arts and sciences, 108; duties of, 55, 64, 67; education, 51; fraternity, 25; graduate work, 207; home economics, 101; sorority, 25.
Agriculture, 92.
Agricultural chemistry, 93.
Agricultural economics, Curriculum in, 90.
Agricultural Experiment Station, 18, 36.
Agricultural Extension Division, 20, 36.

AGRICULTURE, COLLEGE OF:
- Certification of teachers, 91.
- Classification of students, 63.
- Courses credited toward A. B. degree, 110.
- Courses in, 92 ff.
- Curricula, 90.
- Degrees, Requirements for, 63, 88.
- Farms, 29, 36.
- Forestry, 35.
- General information, 34, 35, 88 ff.
- Home economics: curricular requirements, 101; general courses, 106; organization, 35.
- Organization, 35.
- Short courses and special schools, 37.
- Standing committees, 24.
- Teaching groups, 164.
- Vocational agriculture, Teaching of, 91.

Agronomy, 93.
Aid to students, 74.
Anatomy, 218.
Animal husbandry, 94.
Animal industry curriculum, 90.
Animal pathology, 95.
Applied arts, 105.
Applied music, 224.
Approved teacher-training curricula, 164-175.
Armory, 29, 44.
Arrangement of courses, 87.
Arts and law course, 114.
Arts and medicine course, 113.

ARTS AND SCIENCES, COLLEGE OF:
- Certification of teachers, 117, 159.
- Classification of students, 63, 109.
- Combined courses, 113.
- Degrees, Requirements for, 109 ff.
- Education: courses, 178; curricular requirements, 159.
- Electives in agriculture, education, engineering, law, music, and physical education, 106.
- Extension courses, 32, 117.
- General information, 107 ff.
- Law courses, 211.
- Lower division, 111.
- Major subjects, 108.
- Medicine: combined courses in, 113; curriculum in, 217; courses, 218.
- Organization, 31, 107.
- Pre-dental courses, 115.
- Pre-education course, 116.
- Pre-law course, 114.
- Pre-medical course, 113.
- Pre-nursing curriculum, 116.
- Pre-professional courses, 115.
- Regular course, 111.
- Standing committees, 25.
- Teacher training, 117, 159, 164-175.
- Upper division, 112.

Assemblies, 69.
Assistant professors, 12.
Assistants, 16.
Associate professors, 11.
Associations, 70, 83.
Athletics: board, 22; staff, 22; trophies, 78; intramural, 71.
Auditors, 57.

B

Baccalaureate degrees: conferred, 250; list of, 63; requirements for, 61.
Bachelor of Arts degree: arts and law, 114; arts and medicine, 113; combined courses, 113; conferred, 250; regular course, 111.
Bachelor of Law degree: conferred, 256; requirements for, 64, 214.
Bachelor of Music degree: conferred, 261; requirements for, 64, 224.
Bachelor of Science degrees: combined, 113; conferred, 255.
Bacteriology, 99, 221.
Band instruments, 229.
Band music, 44.
Bar, Admission to, 216.
Basic two-year course in: agriculture, 90; pharmacy, 231.
Biochemistry, 93, 105, 220.
Biological Survey, 86.
Biology, 99, 119.
Biology, teaching group, 164.
Board, Athletic, 22, 73.
Board of Control, 6, 30.
Board of Governors, 6.
Board, Military and gymnasium, 23.
Board and lodging, 47.
Boards, Governing, 6.
Book store, 48.
Botany, 118.
Buildings, 28.
Business administration, 129.

C

Cadet corps, 44.
Cafeteria, 48.
Calendar, 4, 5.
Campus, Map of, 2.
Ceramic engineering, 197.
Certificate, Junior, 32, 111.
Certification of entrance units, 49.
Certification of teachers, 159-175.
Chemical engineering, 184, 197.
Chemistry, 121; teacher training, 173.
Child care, 106.

Degree, Requirements for, 182, 192.
Electives for students in other colleges, 110.
General information, 39, 181 ff.
Mining and industrial extension: organization, 40; staff, 21.
Staff of instruction, 21.
Standing committees, 24, 25.
Vocational courses in extension, 40.
Mining engineering, 192, 205.
Mining extension staff, 21.

MUSIC, SCHOOL OF:
Admission, 52.
Advanced standing, 53.
Classification of students, 64.
Certification of teachers, 159.
Concerts and recitals, 38.
Courses, 226.
Courses credited toward A. B. degree, 110.
Degree, Requirements for, 64, 224.
Fees, 59.
General regulations, 37, 224.
Scholarships, 76.
Standing committees, 24, 25.
Teacher training requirements, 159, 171.
Tuition in, 59.
Music organization, 38.

N

Neurology, 218.
Numbering courses, Plan for, 55, 87.

O

Obstetrics, 222.
Officers of the University, 7, 8.
Oil and gas engineering, 194.
Oratory and debate, 154.
Orchestra, University, 84.
Orchestral instruments, 229.
Organization of the colleges, school, and divisions, 30.
Organizations and societies, 25, 69, 83, 84.

P

Package library service, 29.
Part-time student fees, 58.
Pathology, 219.
Pharmacists' register, 74.
Pharmacology, 221.

PHARMACY, COLLEGE OF:
Admission, 48.
Advanced standing, 54.
Basic two-year course, 231.
Classification of students, 64.
Courses, 233.
Combined courses, 232.
Degree requirements, 231.
General information, 231.
History, 39.
Pharmacists' register, 74.
Scholarships and prizes, 75, 78.
Special fees, 59.
Pharmacy, University, 73.
Philosophy, 146.
Physical diagnosis, 222.
Physical education, service programs, 45, 244.

PHYSICAL EDUCATION, DIVISION OF:
Certification of teachers, 159, 172.
Classification of students, 64.
Courses in, 240.
Courses credited toward A. B. degree, 110.
Degree, Requirements for, 64, 236.
General information, 45, 71, 236.
Intramural athletics, 71, 72.
Service programs, 45, 244.
Standing committees, 24, 25.
Student organizations, 84.
Teacher training, 159, 172, 239.
Physical and general science teaching groups, 173.
Physical plant, 28.
Physical training, 71.
Physics, 149; teacher training, 173.
Physiology, 220.
Piano, 224, 228.
Pipe organ, 224, 229.
Placement bureau, Teachers', 74.
Placement guidance, 74.
Plant industry curriculum, 91.
Plant pathology, 100.
Political science, 151.
Poultry husbandry, 95.
Power engineering, 202.
Practice court, 214.
Practice teaching, 176.
Pre-education adviser, 51.
Pre-education course, 51, 116.
Pre-law course, 114.
Pre-medical course, 113.
Prescribed and elective entrance units, 49.
Prizes, 78; standing committee on, 23.
Probation rules, 67.
Professional degrees in engineering, 65, 197.
Professional societies, 83.
Professors, 9.
Professors, Assistants, 12.
Professors, Associate, 11.
Psychology, 146.
Public exercises and entertainments, committee on, 23.
Public hygiene, 221.
Public-school music, 225.
Public speaking, 153.
Publications, Student: committee on, 23; list of, 85.
Publications, University: committee on, 24; list of, 85.

R

Recitals, 38.
Recreation, 71.
Re-entry after withdrawal, 57.
Refunding of fees, 60.
Registration, 54.
Registration fees, 58.
Regular Army, 21.
Religious foundations and societies, 70.
Required preparation in teaching groups, 164-175.
Required work in military science, 42.
Requirements for degrees, *see* "Degree" *under name of college or division.*
Reports, 65.
Reserve Corps, 21.
Research: Graduate Council, 8; Graduate School, 207.
Reserve officers' training corps, 44.
Residence requirements: Graduate School, 207; undergraduate colleges, schools, and divisions, 62.

Retail pharmacy, 232.
Return of books to Library, 57.
Residences and commons, 9.
Romance languages and literatures, 155; teacher training requirements, 167, 170, 175.
Rooms and boarding places, 48.
Rules and regulations, 66.
Rural organization, 100.

S

Schedules, 87.
Science teaching groups, 173.
Scholarship, College committees on, 25.
Scholarships, 75.
Scholastic standing, 61.
School of Medicine, 38, 217.
School of Music: courses, 226; fees, 59; organization, 37.
Senate, 30.
Service programs in physical education, 46, 244.
Short courses and special schools, 37, 40.
Social center for women, 69.
Social life of students, 71.
Social studies, teacher training requirements, 174.
Societies, 70, 81-84.
Societies, Honor, 81.
Sociology, 127, 130.
Soils, 93.
Sororities, 25, 83.
Spanish, 157, 175.
Special entrance requirements, 50.
Special fees, 59.
Special students, 52.
Staff of instruction, research and extension, 9-22.
Standing, Advanced, 53.
Standing committees: college, 24; University, 22.
State Board of Control, 6.
State Road Commission laboratory, 86.
Student activities, 69-73; 81-83.
Student affairs, committee on, 30; director of, 69.
Student aid, 74.
Student concerts, 38.
Student Council, 69.
Student courses and hours, Standing committee on, 25.
Student deans, 69.
Student English, Standing committee on, 23.
Student government, 69.
Student health service, 8, 73.
Student marriages, 68.
Student organizations, 25, 69, 83.
Student placement, 73.
Student publications, 85.
Student social life, 71.
Student teaching, 176, 179.
Student welfare, 69.
Substitution for required courses, 56.
Summary of University enrollment, 266.
Summer session: general information, 46; committee on, 24; High School, University Demonstration, 176.
Surgery, Introductory, 222.
Suspensions, 67.

T

Teachers' bureau, 74.
Teachers' certificates: *see under* Agriculture, Arts and Sciences, Education, Home Economics, Music, Physical Education.
Teacher training, 159-175.
Textiles and clothing, 105.
Theory of music, 226.
Trophies, 78.
Tuition, Rates of, 58.

U

Undergraduate requirements for admission, 48.
Units, Entrance, 49.
Utilization of buildings and equipment, Committee on, 24.
University: book store, 48; calendar, 5; description of, 27; enrollment, summary of, 266; extension, standing committee on, 24; farms, 29, 36; fees and expenses, 58; government and organization of, 30; library, 29; location and history of, 27; orchestra, 84; publications, 85; Senate, 30.
University Demonstration High School: building, 29; staff, 17; work of, 37, 176.
Upper division, Arts and Sciences, 112.

V

Violin, 224, 229.
Visitors, 57.
Vocational courses in extension, 40.
Vocational education, 91, 103.
Voice, 225, 228.
Voice and oral interpretation, 154.

W

Welfare, Student, 69.
Withdrawal from the University, 57.
Woman's Hall, 47.
Women, Dean of, 67.
Women, Loan funds for, 77.
Women, Living accommodations for, 47.
Women's Self Government Association, 69.

Z

Zoology, 120.

33
1937-1938